Inservice Training Programme for High School Teachers of Indian Ordance Factory, Ministry of Defence, Govt. of India in Core Areas of Education (A REPORT)

Venue Ordance Factory Training Institute Ishapore, West Bengal

Duration: 29.6 92 to 8.7.92

Programme Consultants :

PROF. K. C PANDA PROF. S. T. V. G. ACHARYULU

Programme Directors

DR. D. K. BHATTACHARYA

DR. P. DAS

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DEPARTMENT OF EDUCATION

REGIONAL COLLEGE OF EDUCATION

BHUBANESWAR - 751007

1992

On the request of the ordnance Factory Board, Ministry of Defence, Government of India, the N.C.E.R.T. had agreed to organise Inservice Training Programme for their School Teachers in Core areas of education, Language, Science & General Science. The Regional College of Education, Bhubaneswar was instrusted with this task. Accordingly the Department of Education of this College organised the first phase of such training programme for all thew est Bengal Factory Secondary School Teachers from 29/6/92 to 8/7/92 at Ishapore in thrust areas of education as visualised in NPE and POA(1986).

I have great pleasure in recording my appreciation for the academic & organisational efforts made by Prof. S.T.V.G.acharyulu for this programme. I would like to appreciate the commendable work done by the Programme Directors-Dr.D.K.Bhattacharya, Dr.P.Das and external resource persons Dr.S.P.Bhattacharya, HCD, Education of Calcutta University, Dr.B.N.Roy, Field Adviser, Calcutta & Internal Resource Persons -Dr.S.P.Anand, Sri'.S.Hati, Dr.P.Purohit of this College for their active help.

I also record my sincere thanks to General Manager, Ordnance Factory, Ishanore, Principal and other staff members of Ordnance Factory Training Institute, Ishanore for their active support and Co-operation in completing this programme.

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Dr. 3. T. V. 3. Acharyulu Frof. E Head, Edn. & Dean

ACKNOWLEDGEMENT

Consequent upon the request of the General Manager Administration, Indian Transfer Fact ries, Gart. of India, Ministry of Defence, Ishapere, West Bengal to the NCERT, New Delhi for organising a training programme for its in-service teachers based on the recommendations of the Chattepadhaya Commission crossing an efficiency bar or revision of pay scales to senior scale or selection scale, the Regional College of Education, Bhubaneswar worked out a detailed need-based programme in the areas of education, language, science and mathematics.

This programme was erganised at Ishapere for 48 inservice teachers of secondary schools from 29.6.92 to 8.7.92 in the Thrust areas of education as emphesimed by NPE (1986). The programme was formally inaugurated by the pregramme Director Dr. D. K. Phattacharya who spelt out clearly the objectives of the programme and requested the participants to derive maximum tenefits from this pregramme by interacting with the reseeurce persons. Various topics like NPE (1986), its plan of action, prefressional ethics of teachers, Accountability of teachers. Taxonomy of educational objectives, Minimum Levels of learning, continuous and comprehensive evaluation, Diagnostic evaluation & remedial instruction, core teaching skills, Teacher effectivensss, Mental health of teachers, Action research in classroom, values and attitudes in Education, Metivation & learning, educational technology were discussed in detail by the resource persons following the participatory approach.

The participants showed high sense of dedication and devoted long hours for interacting & discussing various operational issues in teaching-learning & evaluation in their schools.

On the last day, Sri P.K.Chesh Chewdhury, General Manaker, Rifle Factory, Ishapore was the Chief Guest in the valedictry function. In the valedictory address, but Chesh emphasised the need of such orientation programme for inservice teachers for maintaining standards and quality in education and requested the distinguished participants to utilise their training experinece in the classroom for effective teaching and testing.

We are really thankful to the General Manager, Rifle factory Ishapere, Principal and other staff of the OFTI, Ishapere for their help and cooperation in conducting this programme smoothly. The participants also deserve congratulation for their patience and active involvement in the programme.

extend our sincere gratitude to our Principal Prof.K.C.Panda and Lean of Instructions, Prog.S.T.V.G.Acnaryulu who acted as consultants and offered valuable guidance and suggestions for this programme.

We also record our sincere thanks to distinguished sessurce persons Prof.S.P.Bhattacharya, Prof. B.N.Roy, Dr.S.P.Anand, Sri G.S.Hati& Dr.P.Purohit who gave benefit of their experiences and contributed papers as background materials for the participants.

Finally we are also thankful to the staff members of the Extension Services Unit of this College for their assistance in conducting this programme.

Dt.1.1.1993

(Dr. D.K. Shattacharya & Dr.P. Das)
PROGRAMME DIRECTORS

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List of Resource Persons

- 1. Pr f.3.F.Phattacharya, Frof.& Head of the Department Department of Education Calcutta University Calcutta.
- 2. Prof.B.N.Roy,
 Field Advisor,
 N.C.E.R.T.,
 P-.'3, C.I.T.Road,
 Calcutta.
- 3. Dr.D.K.Bhattacharya, Peader in Education Regional College of Education Bhubaneswar.
- 4. Dr.S.P.Anand, Reader in Education Regional College of Education Bhubaneswar.
- 5. Dr.P.Das,
 Reader in Education
 Regional College of Education
 bhubaneswar.
- 6. Sri G.S.Hati, Sr.Lecturer in Education Pegional College of Education Bhubaneswar
- 7. Dr.F.Purehit
 Lecturer in Education
 Regional College of Education
 Bhukaneswar

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- 11. Ge tashree Chakristriy, Labilitati sham Laschimp ra, F.o: cah ra, 24 i cr anas.
- 10. Lmt. race dansda, 169, The park F.U: Ichapur, Dist: 24 FGS.
- 1). Lmt. Jyoti tekha Eose, 5/3 The park, P.O: Ichapur Naw beung, Jist: 24 FG3.
- 14. Lmt. Lubhra .ukherjee, mast .aniktala, F.U: lchapur .awabgung List: 24 FGS.
- 15. Smt. Anima Roy, xxx H/0-99 Bragonepur, F.C: Ranchrapara, Jist: 24 Parganas.
- 16. Uri inarat Tiwary, 39, h.D. Road, Journpore Rathati, 24 FGS (N).
- 17. Fri Vishwa Hath Ram, II/C. Kajkumar Singh, F.C: Hazinigar, List: 24 FGS (N).
- 15. Ori Mirendra Dan h,
 45, abduljab ar
 1.0: Hanchrapara,
 Dist: 24 PGS(N).
- 1°. Dri Baijnatnyadava, 171 azin garbyelane load 1.0: Dazinagar, 11N: 743135
 Jist: 24 F.G.S.(N).

- 21. Gri Spinaki Linha, Vill/P.O: Aurai, List: Midnapore.
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- ... ri Enrigu Nath Ram, 87/2 Cossipore Road, Calcutta 2, IN: 700002.
- 41/N. rulia Colony, F.G. rulia Cownship, pist: Midia.
- . Jmt. Jhanti Hansdak, U...L./95 (New), Type II/, Ichapur, F.U: Nawabganj, Ichapur, Jit: 24 Farganas, Just en al.
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- do. Ori Sindayal Frasad, 1.9 Ty-III The park, Ishapore, 24 FGS.
- ad. A.A. Hagoni,
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 i.c.; schipur,
 numb ang, lenapur,
 n4 i ar, anas (V.B.)

- 30. Sri Radhika Raman Thakur, 14/1/IE, Asgar Mistri Lane, Calcutta - 700 046.
- 31. Sri Lakhraj Ram, H/O Kalkattı Jaisawara, G.P. Road, Maniktala, Ichnapur - 24 PGS (N).
- 32. Sri Taraknath Yadav, 38/11 Eastland Type-II P.O:Bengal Enamel, Dist: P.G.S.(N).
- 33. Sri Abhimanyu Singh, 23/1 Cossipore, Road, Calcutta - 2.
- 34. Sri D.C.Bhuiya, Satinsen Nagar, P.O: New-Barrackpur, Dt: 24-Parganas (N).
- 35. Smt. Kalyani Sen Gupta, Sreepalli Palta, P.O: Bengai Enamel, Dist: 24 Parganas (N).
- 36. Sri numud Ranjan Mondal. Nilanpalli, Hridaypur, Barasat, 24 Parganas (N) West Bengal.
- 37. Sri S.K.Datta,
 Vill Lalpur(Padmapukur)
 P.O: Chakdaha,
 Dt: Nandia (W.B.)
- 38. Sri S.P.Kumar, GSF High School, Cosscpore, Calcutta, PIN: 700002
- 39. Smt. Portia Murmu, G.S.F. High School, Cossbpore, Calcutta 700 002.

I

- 40. smt. Bijali Barman, G.S.F. High School, Cossipore, Calcutta 700 002.
- 41. Miss Bejoy Garh, 10/66, Calcutta 32.
- 42. Miss Gopa Roy, 13 Nivediasarnee, Sisir Lodge, Calcutta - 700 075.
- 43. Smt. Jyotsna Bhattacharjee, G.M.C. Garden hoad, Calcutta 700 030.
- 44. Smt. Kalpana Biswas, 64/2 Laksmi Narayan Road, Dumdumcant, Calcutta - 65.
- 45. Smt. Chitra Chatterjee, 2F, Panditia Road, Calcutta - 2g, PIN: 700 029.
- 46.Sri G.P.Basu, 156/1, II.N.K.Road(south), Flat No. e 002, Calcutta - 36.
- 47. Sri Om Prakash Mishra, H/O - Parmeswar Saw Saaw, N.B. Road, Kharadah, P.O: Kharadah (N) 24 PGS.
- 48. Sri Yadunath Kam, 45A/10 Estate, Dum-Dum, Calcutta - 28.

PEGIC AL COLLEGE OF EDUCATION: BHUBANESWAR. DEPARTMENT OF EDUCATION

Inservice Training Programme for High School Teachers of Indian Ordnance Factory, Ministry of Defence, Government of India in Core Areas of Education to be held at OFTI, Ishapore-743144 (West Bengal) from 29.6.92 to 8.7.1992.

PROGRAMME SCHEDULE

Date and			Resource
Day	Time	Tepics	Person
29.6.92 (Monday)	10AM-11AM	Registration of participants & Inauguration	
	11AM-12N##1	n Objectives of the Programme	Dr.D.K.Bhattacharya
	12Neen-1PM	Professional Ethics and Cose of Conduct of Teachers I	Dr.P.Purchit
	1PM-2.30PM	LUNCH	
	2.30PM-3.3	OTeaching and Educa- tional Objectives	Dr.F.Das
	3.30-4.30	Current Trends in School Education	Dr.D.K.Bhattacharya
30.6.92 (Tuesday)	10-11 AM	Taxonomy of Educa- tional objectives in Behavioural Terms	Dr.P.Das
	11-12neen	Prefessional Ethics & Cede of Conduct of Teachers II	Dr.F.Purchit
	12-1 PM	Child Centred Education	Dr.D.K.Ehattacharya
	1-2 PM	LUNCH	
	2.30-3.30	Criteria of Good Evaluation	Dr.P.Das
	3,30-4,30	Group Discussion	Dr.F.Purchic
	10-11 AM y)	Minimum Levels of Learning	Dr.D.K.Ehattacharya
	11-1 PM	Procedure of Evaluation	Dr.P.Das
	1-2.30 PM	гинсн	
	2.30-3.30	Core Teaching Skills (Stimulus Variation)	Dr.D.K.Bhattacharya
	3.30-4.30	Accountables	Dr.P.Purchit.

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Date and Jay	Time	Topics	Resource person
2.7.92 (Thursday)	10A.M - 11.45A/1	Core-Teaching Skills (contd.)	Dr.D.K.Bhattacharya
	11.45AM_1.00PM	Continuous, Comprehen- sive Evaluation	Dr. P. Das
	1.00PM -2.30PM	LUNCH	
	2.30PM-3.30 PM	Innovations in Education I	Or.P.Purohit
	3.30PM -4.30PM	NPE(1986).An Overviewed	Dr.D.K.Bhattacharya
3.7.91 (Friday)	10AM -11.30AM	Core-teaching skills (Contd.)	Dr.D.K.Bhattacharya
	11.30AM-1 PM	Tools & Techniques of Evaluation	Dr. P. Das
	1 Pm - 2.30PM	LUNCH	
	2.30PM-3.30PM	Innovations in Educa- tion II	Dr.P. Purohit
	3.30PM-4.30PM	Institutional Planning	Dr.D.K.Bhattachary
4.7.92 (Saturiay)	10AM - 11AM	Uevelopment of Test Items	Dr. P. Das
	11Am - 12Noon	Value Education in Schools	Sri G.S. Hati
	12Noon-1 PM	Guidance for Mental Health in Schools	Dr.S.P. Anand
	1 PM - 2.30PM	LUNCH	
	2.30FM-4.30PM	Accountability of Teachers II	Dr. P. Purohit
5.7.92 (Sun .ay)	10AM - 11 AM	Value Education	Sri G.S. Hati
	11AM - 12Noon	Teacher iffectiveness	Dr.S.P. Anand
	12Noon-1PM	Role of Educational Technology	Dr.P. Purohit Dr.D.K.Bhattachar
	1PM - 2.30PM	LUNCH	
	∠.30PM-3.30PM	Teachers as facili- tator of Learning	Dr.D.K.Bhattachary Dr. P. Das
	. // -: 30b/.	Notivation and Learning	ur. B.N. Roy

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	t in - Elect	Diagnostic Testing & Remedial measures	Sri G.S.Hati
	**	Action were in Schools	Jr. S.P.Anand
	1. woon-1911	Jonstruction of	Dr. P. Das
		achievement test items in school subjects	Dr. P.Purohit
	130rM	LUNCH	1
	10.M-3.30PA	Problem solving Approach	Dr. B. N. Roy
	3.3 m4.30PK	Communication and Learning	Dr.SP Bhattachary
	1 mm - 11AM	Guidance & Counsell- ing in ochools	Dr. S. P. Anand
	11w 12Noon	Discovery approach to te ching-Learning	Sri G. S. Hati
	1 -007-1,	conditions for Pro- moting Learning	Dr. B. N. Roy
	1 2 , -2 . 302	LUNCH	
	1.30A3.30FM	Development of pro- gress deport card for recordin scholastic & Non-scholastic dimen- sions of growth	Dr. P. Das Dr. P. Purohit
	3.73PM-4.30PM	Instructional Strategies	Dr.SP.Bhattachary
• 7 • 4.	1 1AC - 11 AM	Evaluation of Attitude and values	Dr. B. N. Ray
	11A 1.200n	Planning for Teaching School Subject	Sri G.S. Hati
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distribution = 11.00 A.M. distribution = n= 3.30 P.M.

(Ur.J.K.Bhattacharya) Programme Director

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The National Policy of Education, 1986, Programme of Action (POA) on NPE, 1986, and subsequent Committee Reports like Rammurthi Committee Report (1989) and Reddi Committee Reports like Rammurthi Committee Report (1989) and Reddi Committee Report (1991) are a few significant events in the area of educational development in an eountry. All these policy statements and reports have highlighted ecrtain changes in the core areas of education related to teaching-learning at secondary school level and have visualized a significant role of teachers in implementing various tasks related to changed perspectives of teaching-learning. The changed dimensions in core areas of education and emerging dimensions of teachers role arising out of policy statement and subsequent developments would necessative reprientation of teachers so that the teachers could be sontitized in the areas of reform and these are properly implemented.

The in-service Training programme for High School Teachers has the following objectives.

- (1) To inculcate in the teachers an awareness about regent trends and innovations related to teaching-learning at secondary scholevel.
- (2) To help the teachers to understand the dynamics of Teaching-learning at secondary level.
- (3) T inculcate skill and temperancies in teachers in emerging methodologies to encounter the increasing complexities of class room teaching-learning.
- (4) To help the teachers to devise appropriate method of communications in the class room and in the out of the class room tivities relevant to the needs of the students.
- (5) To acquaint the teachers with various energing strategies of evaluation for houses's competancy.
- (6) To make the teachers aware about various aspects of professional ethics and account dellity touchers.
- (7) To help the teachers to understand various aspects of institutional planning.

Keeping these objectives in view, the programme transaction could be grouped under the following operational heads:-

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Motivation and Launing

Prof. Biswanath Roy Rield Adviser (NCCRT) Calcutta-700014

In course of several research works, educational psychologists have agreed to the fact that motivation is an important condition for learning. Storng motivation maximises mental activity in general and learning is specific. As a result, it has become necessary to know what is motivation and how one can be motivated.

Mitivation is considered as the active and driving force in an individual which makes the individual seek or want fulfilment of his needs, moods, wishes and desires. The issue of how one can be motivated comes next. This has given rise to the concept of achievement motivation, briefly known asnach.

Achievement motivation starts with the concept of achievement imagery (AI), doubtful imagery (TI) and unrelated imagery (UI). The concept of AI is considered as the most useful one, where it may be found that the individual has a positive goal in view for achievement. On the otherhand, TI and UI are considered as of no goal in view. Such imageries are measured extrem by PAT (Pictures) or other kinds of tests.

Once AI is found in an individual, he is further studied for knowing his needs (N), inscrumental achivities (I) BW (blocks from outside world), Bp (personal blocks), H (help from others), G(+) and G (-) as positive and negative emotion, Ga (+) and Ga (-) as yal anticipation of success (+) and failure(-)

It has been noticed that individuals with high achievement motivation suffer from both hope of success and fear of failure. This is true in case of high achieving learners also, sometimes high expectations of the parents, teachers and peers also creat such an ambivalence in the learner.

Certain experiments on the increase of mAch in <u>learners</u> have lead to the following framework:

- (1) To develop a desire to work towards same standards of performance which may be either externally or self impose.
- (2) To develop youl directedness interms or desinite socation goals.
- (3) To develop appreciations or the fact that youl achievemen needs constant efforts to overcome personal and external constraints.
- (4) To promote thinking about and to try to strength in the following characteristics in learners:

B) g &

- 4.1. Some of a post thing, . . . - - -
- 4.2. Careful plannin, and carrying out study activities.
- 4.3. Intelligent use of time: Understanling value of time.
- 4.4. Regular work habits.
- 4.5. Peaulies to accept feedback on one's performance, willingness to undertake new activities, know and discuss performance with all others.
- 4.6. Feel free to ask questions and raise doubts about classroom activities.

Such studies had lead toward the use of social reinforcements for motivating and improving and academic performance of learners. It was found that apart from high achievers, high percentage of middle range achievers had significantly improved their level of academic achievement. The percentage of improvement among the low achievers were insignificant. Social reinforcements like verbal appreciation, notings on the anser books, frontal sitting arrangement; etc. were found to be useful.

The ultimate goal, however, is to create self-motifation in the learner which in turn will generate the will- to- learn. As such self-motivation and will- to- learn will create self- learning and effective learning mechanisms in the learner. After all, nothing fails like failure and nothing succeeds like success.

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Conditions for promoting learning

Prof. Biswanath Roy Field Advisor (NCEPT) Calcutta-700014.

Modern educational research has come out with several conditions which promote learning. The objective however, has remained to be the enhancement of learner's involvement and satisfaction in learning and academic achievement. A school going learner spends roughly around six hours in the school, which is 25% of the total time. Even then, school climate, the text book, the teacher nehaviour like friendly encouragement and guidance, the teaching style, teacher-pupil relationship etc., create serious impacts. In home, the home environment, parents attitude toward education, guidence from parents and co-siblings if any, are also of high importance. All these create a kind of learning atmosphere around the learner to promote his involvement and satisfaction in learning and achievement.

In addition to the above mentioned conditions, some other conditions can also be considered which are largely teacher dependent.

J. For example:

1) Organisation and presentation of learning material:

This is necessary to adopt a teaching style, one mode of presentation or the other for greater teaching effectiveness. Different teaching styles may be adopted for different teaching-learning materials:

- 2) Learning activities: This envisages learner's identification with learning material. Individual differences will beed recognition.
- 3) Testing : Having direvice, selective and motivating functions.
- 4) Guidance: may either prevent or correct probable errors of judgement depending upon time, place and person.
- 5) Emotional and social climate for learning: grows out of the concern of the school for the total well being of the learner.

Learning conditions, however, are very much dependent also upon the ability, aptitude and activity of the learner. Intelligence & socio-economic status contribute quite effectively toward academic achievement as well as skill development. The whole genut of psychological testing is meant for such purposes. Probability of greater success in learning is also dependent upon the motivation of the learner.

However, the main point of contention is pupils' perception of a "ggod" teacher. For example, pupils will always prefer to find the teacher as nice, kind, fair, friendly, understanding etc. Knowledge about subject mattermiclearness, of expression & explanation, modest & neatly dressed, does not nag, ridicule or speak sarcastically, does not use threats frequently to maintain discipline, insists upon the completion of hometasks etc, are also important.

The above mentioned teacher characteristics are supposed to create good classroom climate congenial for learning, without any process loss in teaching-learning situation. Thus there can be reduction in teacher phobia or school phobin and increased metivational condition for learning. It is considered that the teacher himself could be as such that his very presence will become the most important condition for promoting learning. Therefore, teachers' roles become of prime importance.

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(3)

Prof. Bisvenath Rov Field Adviser (MCERT) Calcutta- 700014.

It is " well known we usage that life is nothing but a chain of problem solving activiteis. Any individual is faced with any number of p of problems to be solved fo an effective life and living. As such, problem solving has been considered as a framework or pattern within which creative thinking and reasoning taken place. Observation, prediction and inference are the three important steps involved in problom solving approach. Successful problem-solving and successful living are analogous. Culture itself is but a record of how our ancestor have solved various problems.

Problem solving approach is a fundamental axiom in the learning process. Learning involves problem solving by the learner. Many educational psychologists have found out that approach to solve the problems can have the following steps:

- (1) Understanding the problem: To understand carefully and exactly the nature of the problem, its centext and content. This is necessary to eliminate useless efforts.
- (2) Collecting information and data : It may be that earlier approaches to solve a problem are available, These may serve as reference material.
- Formulating possible solutions or hypotheses : This step is important for the fact that there may be some relationship between the past and the present method of solving the problem.
- Evaluating the possible solutions : (4) Imagination, prediction by trial and error to understand the difficult ways of approach are important.
- (5) Trying or testing possible solutions of predicted VALUE : Consider the variables for experiment, abservation and inference to establish the value of the approach.
 - (6) Forming conclusions: For immediate purpose or a long term purpose. .

It can be, however, stated that problem solving is a process of overcoming difficulties that appear to interfere with the attainment of a goal. It is a procedure of making adjustments inspite of drawbacks.

The problem solving approach may involve the following behaviours

- 1. Unlearned or habitual behaviour
- 2. Trial-and a error behaviour
- 3. Insight behaviour
- 4. Vicarious behaviour
- 5. Dehaviour besignated as "The scientific method".

As a result, the learner learns to recognize a fact in original to make accurate evaluations about his ways of testing his thinking. Roles of 1d intification of need, reward and punishment, complexity level and their interaction may motivate the learner to attain the desired level of excellence.

TTC/REC/92

Evaluation of Attitude and Volues

Prof. Biswanath Roy Field Adviser (NCERT), Cal-14

Several psychologists have tried to define attitude and value in different ways. Attitude can be defined in a normal way as a upon & reflecting the evaluative concepts or belief. learned about the characteristices of a social object or class of social objects. The affective past is covert having implicit response having drive-producing response to elicit motives and overt behaviours. The evaluative reaction is based upon conception of the referent in terms of facilitation or inhibition of attainment of already existing goals. Evaluation of attitude speaks of either positive or negative reactions.

Definitions of the term value are scarce and imprecise. However, value has been considered as a degree of worth ascribed to an object or activity or class thereof. Generally the degree of worth is ascribed by the possessor of the attitude on the basis of instrumentality of the object for the facilitation or inhibition of goal achievement. Values lie at the root of attitude development through affective reactions.

Evaluation of attitude and values can be considered from the points of view as (1) , what kind of attitude or value is good or bad, i.e., problem of nature and content (2) what is the degree or intensity, i.e., functional and contextual as how much of the good or bad attitude or value is present in the individual. Both these aspects demand firstly, the measurement part (no. 2) and secondly, the evaluation part (no. 1).

Measurement of attitude and values have produced reliable and valid scales constructed by the methods suggested by Thurstone, Likert, Guttman, etc., cach having variation in approach. However, evaluation needs a fresh look through either "good" or "bad" and how much of a particular attitude or value will be accoptable according to individual, group or social norms. Due to differences, clash of attitudes and values have always created problems failing to define what is good or bad attitude and value, other than constitutional values & socially acceptable ones'.

For example, the following attitudes and values can be considere for evaluation :

1) Love for the country, 2) Secularism, Democracy, Equality of opportunity, 3) Dignity of labour, 4) Ethics and Morality, 5) Discipline, Tolerance, Help.

For the purpose of measurement, one may construct a reliable & valid attitude or value scale. On one of the above mentioned topics b following the standard methods. Through a kind of score, the research may arrive at an index as a measured outcome or quantum reference on attitude or value scale. The index may then be compared with a norm, i.e. a mathematically & socially established and accepted standard. I is here that evaluation gets proper importance. However, it needs to be noted here that apart from certain static attitudes and values (whi have not changed), others have changed due to generation gap, scient fic and technological innovations, population bining etc. As a resu researchers are now talking of comprehensive and continuous evaluati (CCE) due to the changed circumstances. It is here that, evaluation attitudes and values on the time dimension specially, has gathered greater importance.

CORE TRAINING SKILLS : AN' INNOVATION

Dr. D.K. Bhattacharjee, Regional College of Education Bhubaneswar.

Theoretical Rationale:

The recent attempt to define teaching in behavioural terms is an innovation. The teaching can be defined as a complex set of classroom but viour of the teachers. Whatever the teacher does in the classroom, for example & lecturing, questioning illustrating, giving examples, using audiovisual aids, reacting to student's response etc. for the production of effective learning could be treated as class room behaviour of the teacher. Again, due to individual difference the teachers behave in various ways in various teachinglearning situations. The same teacher may behave differently under different conditions. Any way, the pattern of teacher behaviour in the classroom has great influence on the learners. Any human behaviou can be modified through practice. Similarly, the behaviour of the teacher can also be modified through practice. The modification of , human behaviour has various purposes. Similarly, the purpose of the modification of the classroom behaviour of the teacher is to make him efficient in organising various teaching-learning tasks. Whenever a person modifies his behaviour pattern in order to become efficient in rerforming a task we sathat he has acquired skills in performing a task. In order to achieve success in any profession a person is to , acquire certain basic skills, Similarly, in order to achieve success in teaching profession, a teacher is to acquire certain basic skills by improving or manipulating his classroom behaviour. Since the teaching involves a complex and interclated sets of behaviour patterns, " thich occurs at various levels of interaction with various types of learners, a teacher cannot modify all his classroom behaviour at a time and thereby acquire all the teaching skills simultaneously. Therefore, the specific teacher behaviour in the classroom related to a particular teaching skill is to be identified, isolated and improved. A student-teacher is able to acquire one specific teaching skill at a time through modification of certain behaviour patterns that . comes under the perview of that specific teaching skill. Thus skills acquisition is a programme designed to modify the classroom behaviour of the teachers. The use of teaching skills helps the teacher to involve a large numbers of learners in teaching-learning strategy, to take care of individual learners, to replace the lecturing by learning through doing. During the training phase student-teacher should acquire the teaching skills one by one in a systematic way. But after the training when he is placed in a school situation he selects the appropriate skills, integrates them with a specific content area and applies to the classroom situation in order to implement a specific teaching-learning task. Here lies the line of demarcation between training and teaching. The selection of relevant teaching skills and their style of integration woul' depend on the nature of the content area, the ability of the t acher, the requirement of the classro m climate and the demands of methodology.

Skill acquisition programme for the school teachers was first undeftaken in Standford University Teacher Education Leagurann. Allen and Rayan (1969) could visualize tourteen representative teachin skills for teaching various select a subjects at different levels. They had emphasized epocific teaching skills in connection with the interest teaching programme, introduced in Standford University.

Thus the exposure of the student-teachers to core training skills would enhance the effectiveness of the training programme.
The student-teachers could acquire the skills one by one. The core
training skills should be incucated to the student-teachers through
micro-teaching sessions. The micro-teaching sessions could be organised by the teacher training institutions as per the following
strategy.

Concept Clarification - The teachers are to be oriented in micro-teaching concepts, various skills, their components, cycle of teaching, type of the classroom, size of the classroom, the technique of observing the skills and feedback procedure.

Evaluation of the Skiil and Feedback - The performance of the teachers should be evaluated wither by the supervisors or by the peer group by dint of specially designed observation schedule. The feedback is to be given immediately either by college supervisors or by peer supervisors on the basis of the quantification of specific teacher-behaviour to a particular skill. In observation schedule the supervisor can record the performance of the student-teachers by putting tallies against the various components of a particular skill.

The existing traditional practice teaching or the internship programme could be replaced by core training skills. The teacher educators are to be oriented in this area of innovation. There is an urgent need to develop guide, model lessons on various skills in different method subject areas and supervisors observation schedule. Whenever possible, video-tapes, television and film strips should be used for demonstration of the core training skills. The university authorities should initiate necessary modifications in the practice teaching programme or intership programme by giving statutory sanction to the introduction of core training skills.

Core Training Skills: Their Nature - A number of teaching skills have been identified and prescribed by the teacher educators recently for their inclusion in the training programme. The following teaching skills should be designated as 'basic skills' and they should be incorporated in the secondary school teachers training programme in order to enhance their effectiveness and competancy in teaching-learning.

The skill of introducing a lesson: Introduction is a skilled art: he technique if introducing a new learning experience in the shape of a lesson to the learner involves skill and expertise on the part of a teacher. When we confront new situation or ne experience in our life, tension and anxiety develops. The same is the situation with a learner. Whenever he confronts the unfamiliar learning experience he suffers from tension and anxiety in the begining. This initial tension and anxiety may reduce the motivation, the level of interest and the span of attention of the learners. Now it is the duty of the teacher to relieve the learner from initial tension and to inculcate motivation by skillfully introducing the lesson. As a matter of fact skillful introduction of the lesson sets the tone of the lesson. If the learner is motivated by the beginning performance of the teacher he will definitely be further interested and curious to know the subsequent aspects of the lesson. In order to introduce a lesson the teacher is to perform the following functions:

i) The teacher is to inculcate attention, interest, curiosity and motivation in the learner so that he becomes ready to accept new learning experiences.

- ii) The teacher is to establish a bond between the familiar and the unfamiliar, the concrete and the abstract learning experiences:
- iii) The teacher is to establish rapport with the learners so that they able to perform their learning activities related to ergnitive, affective and psychomotor domain in an effective way.
 - iv) The skill of introducing the lesson involves the dramatic formulation of the teachers activity based on imagination and enterprise.

/teachers

- v) The skill of introducing the lesson involves the dramatic formulation of the activity based on imagination and enterprise.
- vi) The activities performed by the teacher during introducing a lesson should be relevant to the main theme of the topic which he is going to teach.
- vii) During introducing a lesson the teacher shold assure the learners that the learning activity will be interesting. This assurance helps the teacher to establish quick rapport with the learners.
- viii) The teacher should promise regard for sustained attention and interest of the learners.

The following classroom behaviour of the student-teachers can be isolated, identified and modified during the training programme. in order to equip them with the skill of introducing the lesson:

- i) The teacher lictures/questions/illustrates/demonstrates on a pheromena or an event or an object from familiar to unfamiliar sequence.
- ii) The teacher narrates/lectures/questions/illustrates/demonstrates/analyses the phenomena or the event or the object from concrete to abstract sequence.
- iii) The teacher activity is dramatic. Dramatic elements could be introduced by modulation of the voice, ise of various educational technology devices or audio-visual aids.
 - iv) The teacher promoses reward for sustained attention and interest of the learners.
 - v) The teacher assures the learners that the learning activity will be interesting.

The skill of the questioning - Questioning is an important teacher behaviour, which acts as a stimulus in the classmom situation and thereby facilitates learning. Appropriate fre uency of different types of questions helps critical analysis and clarification of concepts, principles, nature of phenomena and events. It also promotes effective classroom interaction through involvement of maximum number of learners in learning activities. It also helps the systemat management of classroom activities. Questioning cannot be treated as method of teaching. It is a skill which supplements the lecture/explaination/illustration/demonstration/use of audio-visual aids/story telling problem solving/and other related teacher b haviours in the class room. As a matter of fact, questioning should be integrated with various teaching methods and cent utr in a systematic way.

The Characteristics : The skill of guestioning should have the following characteristic features :-

- i) Effective questioning should be micro concept based. Questioning should aim at clarifying a small concept. The question which tries to clarify more than one concept at a time becomes complex and confusing.
- ii) The language of the question should be simple and unambiguous. Vague question may create confusion. If the question is vague the learners may ask the teacher to repeat it and consequently, valuable time is wasted.
- iii) Minimum possible words should be used in framing a question so that it becomes specific, brief and pinpointed. The use of minimum words in a question helps the teacher to focus the learner attention quickly on the concept.
 - iv) The questions should be audible to all.
- v) While framing a question the teacher should consider the maturity level of the learners belonging to a particular class.
- vi) An optimum number of learners should be involved in the questioning. The questions should be properly distributed to all types of learners sitting in different commers of the class.
- vii) Only one question should be asked at a time. The asking of two or three questions at a time may confuse the learners.
 - viii) The questions should be asked in logical sequence.
- ix) The teacher should name a boy and then ask a question or after asking a question he may ask the learners to volunteer.
- x) The teacher should take a pause for a few seconds before asking a question in order to draw attention and interest of the learners.
- xi) On may occasions the learners ask guestions to teachers. The teacher either can give answer or can redirect it to some other learner. The teacher should give both verbal and non-verbal complements to the learner for asking questions.
- xii) The teacher should give his dpinion after he gets answer from the students. The students are curious to know whether their response is correct or not.
- xiii) The students should be allowed to think for a few seconds after questioning. ;
- xiv) Repetition of the same question by the teacher should be avoided.

An effective teacher formulates various types of questions at different stages of the lesson. As a matter of fact, each question should have a clear-cut purpose. While introducing the lesson the teacher may ask motivation guestions or the questions in order to test the previous knowledge of the learner. During the presentation stagem the teacher may ask variety of question to the learner in order to test their ability to recall and recognise the facts, their level of understanding or comprehension and their ability to make analysis, synthesis and to evaluate. During this stage the teacher may also ask question to test the affective demain of the learner i.e. the pattern of interest, attitudes, appreciations and values. During this stage of the lesson the teacher should ask application question. The types of the questions to be asked during various stages of the lesson would depend on the nature of the highest characteristics of counitive and the affective domain of the learner to the content areas.

Questioning-its various forms: Each question should be asked for specific purpose. The purpose of questioning is determined by the needs and the requirements of the lesson. Generally the teacher should ask the following types of questions:

- i) Questions to measure Information Processing Ability:
 The teacher may ask information processing questions in order to judge the capacity of the learner to recall the knowledge i.e. recall of specific facts, concepts, rules, principles, phenomena, events, conditions, structure, pattern, classification and categories etc. The information processing question may aske the learner also to recognise the knowledge i.e. recognition of facts, concepts, rules, principles, thenomena, events, conditions structure etc. It is through recall and recognitions the learner processes the informations.
- ii) Communication Translating Ability Measuring Questions: After discussion, demonstration, experiementation or any other type of communication the teacher may ask question to the learner to measure the ability to translate the communication in some other form. The learners may respond to such question through verbal response or through some psychomotor task.
- iii) Interpretation Questions: The teacher may ask the learner to interpret some fact, event, phenomena or an object. The learner may interpret an event or an object in various ways.
- iv) Thought Provoking Questions: The purpose of this type of questioning is to judge the learner's ability to generalise the conclusions or to draw inferences or to find out the implications of the conclusions.
- v) The Questions to measure the Application Ability: By application ability question the teacher tests the ability of the learner to apply the recently gained knowledge in new learning situations
- vi) Questions to measure Analytical Ability: The analytical questions demand-s that the learner is to analyse the whole object, event, phenomena or structure into various parts or components or elements.
- vii) Rephrasing questions: When the students are not able to answer a question due to its difficulty value, the teacher should rephrase the language of the question in order to make it easy. The teacher may ask a leading question also.
- will Questions to test the Judgement Ability: The teacher should ask judgement question in order to test the judgement wapacity of the learners about the relevancy, significance and validity of the objects, events and phenomena etc.
- ix) Questions to measure synthesis ability: The teacher may ask the learners to combine the spparate parts or elements or substances into a whole or into a system in order to present them as a totality.
- x) Questions to measure attention and interest: Certain questions may test the level of attention and interest of the learner during classroom communication.
- mi) Questions to test the willingness to interact a The teacher might ask question in order to measure the willingness of the students to interact to class a communication.

- xii) Motivation Questions: Motivation questions are used during the introduction stage of a lesson. While introducing the lesson the teacher is to motivate the learner. In order to motivate the learner the teacher asks questions on known facts, familiar concepts and concrete life experiences.
- xiii) Opinion Questions: The opinion questions are asked to test the learner's views, reaction, opinion, beliefs or attitudes to certain issues.
- xiv) Complete information questions: After the teacher asks a question, the student responds, Now if the response of the learners does not cover all the required informations, the teacher may ask fresh questions to another learner in order to focus his attention to some other aspects of the problem. Till the teacher gets the complete informations about all the aspects he should go on asking questions to the same learner or to number of learners for more and more informations.
- xv) Development questions: The questions should be asked in a systematice hiearchical sequence. The teacher may develop a concept or an idea through systematically and hierarchically arranged sequential questions:
- xvi) Repetitive questions: The teacher may repeat the same question to another learner either in order to verify the response of one learner by other learners or to test; the level of attention of the learners.

The types of questions as discussed above are releated to both communitive and affective domain of the child overlaps while he reacts to various questions of the teacher. But the effective teacher should formulate the questions in such a fashion that he is able to measure the specific attributes of both cognitive and affective competency of the child. The teacher should plan a democratic classroom so that the learners are able to react and to put questions in an atmosphere of freedom.

Skill of Reinforcement: Reinforcement is an important technique to motivate the learners and to ensure their active participation in teaching-learning activities. The behaviouristic psychologist Skinner's work has emphasized the importance of reinformement in maximising learning. If a particular behaviour is reinforced, it is likely that its frequency would increase considerably. On the otherhand if a particular behaviour is not reinforced, it is likely to disappear The response of the students or the level of students' participation or the level of students' engagement in learning activity reflects the behaviour pattern of the learners. The teacher can reinforce the students' participation in learning activity and can also withdraw reinforcement. Teacher's reinforcement may be either positive or negative. Teacher's encouragement or praise is known as Teacher's mesitive reinforcements. Teacher's encouragement improves the quality of student's classroom performance manifestol through more response, response havin originality, good guess and imagination, active participation, active interaction, active engagement in completing a specific learning task within prescribed time limit, continuous rando progress, sincere atte mpt, attention, discipline and courtrey etc. On the otherhand, teacher criticism or discouragement is known as tracher's negative reinforcement. Teacher's criticism decreased the quality of the student's class room performance manifested through lesser remonse, reprinse lacking originality, and imagination, lesser participation and interaction, wit drawal from engagement, inability to complete learning task within pre-crined time limit, slow progress, pror effort. inattentiveness, misbe-haviour and tendency to break the rules etc. Teachers encouragement should be direct and in the form of small statements. The teachers should be very much carefull so that the reinforcement statements do not become mannerism. Teacher should use a variety of phrases to encourage the learners. The verbal encouragement should be supplemented by non-verbal communication of approval. The teacher can offer words, pharases, small sentences which are signs of cheerful verbal statements of affirmation, for example, 'very good answer', 'very fine response', 'extremely good', 'extremely nice' fine', etc. On the otherhard, the teacher should not use negative verbal teinforcements such as the words, the phrases and the sentences like, 'ma', 'wrong', 'your answer is meaning less', 'you are talking non-sence', 'you are doing non-sence', etc. Reinforcement could also be given through non-varbal communication of approval like affirmative head nodding, appreciative look at the attentive learners, for good works done by the learners and for listening carefully the response etc. The nature and the firequency of the use of reinforcers should depend on the nature of the performance of the learners. Thus the teacher behaviour acts as reinforcers for enhancing the level of motivation and for formulating a purposive classroom interaction.

The learning environment could also act as reinforcers.

The reinforcement could also be given through appropriate planning of learning task. The peer group or the classmates also can reinforce the learner. The organisation of group learning may facilitate group accurate or group encouragement of the effort of the individual learner.

The skill of using a black board: In our country most of the secondary school have not been able to use sophisticated and costl teaching aids in teaching-learning due to financial stringency. Specially most of the rural schools are so ill-equipped that they may not be able to use the latest devices of educational technology in order to improve the teaching-learning even at the end of the current decade Consequently, the black board would continue to occupy an important place in teaching-learning as a nonprojected teaching aid. Therefore, the teacher-training programme should equip the student-teachers with the skill of using a black, board.

The use of black board is helpful to a teacher for the reasons stated below :-

i) Black Board is less costly and all schools are able to provide atleast one black board in each class.

ii) Teaching along with the use of black board can enhance the level attention and interest through activitisation of two senses i.e. observation and listening.

iii) The black board helps the teacher to explain various concepts, rules, principles, informations pointwise in a logic sequence or for making summary of the lesson at the end of teaching.

iv) The black board also helps focussing. The teacher can focus the attention of the learners on new terminology, phrases, formulas, important aspects of a concept, informations or rules etc.

v) The blackboard helps the teacher to switch over from the attract concepts to the concrete concepts, from the unknown ideas. In order to make the abstract we unknown concepts concrete and known the teacher can draw place as symbols, diagrams, sketches, maps, graphs on the blackboard, the trawing of pictures, diagrams, sketches are recovered as the picture, diagrams, sketches are seen as the constant of pictures, diagrams, sketches are successed as the picture, diagrams, sketches are successed as the picture.

- vi) The blackboard can also be used for writing student's response either for its verification or as a technique to reinforce their correct response.
- vii) The blackboard helps to enhace the learner's participation in teaching-learning. The teacher may invite a learner to the black board either to write or to draw something related to the lesson in order to judge his ability to face a group situation and his level of knowledge, understanding and skill.

The blackboard writing is an art. It has the following characteristics ::

> i) The blackboard writing should be visible from all corners of the classroom. Clear visibility depends on clean writings and proper placement of blackboard in the class. Before it's use all writings should be crased properly by the teacher.

ii) A concept is divided in to a number of sub-concepts. At the end of the discussion in regard to various sub-concepts a brief statement concerning their nature should be written on the blackboard serially under the board heading of the con-

corned sub-concept.

iii) Sufficient care should be taken about the distinctness of each letter, word and sentence and all words, letters and sentences should follow a straight line towards right direction of the teacher's hand. There should be sufficient spacing between various words, and between various sentences so that the learners are able to read it distinctly.

iv) The teacher can focus important words, phrases, sentences or any aspect of the concept by using coloured chalks. The use of coloured chalks makes the diagram, the symbols, the pic-

tures, the maps and the figures attractive.

v) Briefness and specificity helps in sustaining learners attention. Only brief and specific points should be written on the blackboard. Details writing may detract the learner's attention.

The teacher should acquire various aspects of the skill of blackboard writing systematically so that he is able to produce effective teaching-learning even without use of sophisticated audio-visual devices.

The skill of explanation : The student-teachers should acquire the skill of explanation in order to influence the comprehension ability or the ability of understanding of the learners and thereby to enhace their cognitive competence. The skill of explanation should be used in order to clarify the complex nature of various concepts related the content areas of various subjects. If the concept is beyond the cognitive competancy of learners, they may fail to understand its proper meaning and nature. The teacher is to explain the meaning, the nature and the dimension of the concepts so that the learners understand it. Thus the main nurmes of the use of the skill of explanation is to help the learners to comprehend or to understant. In order to explain a concept the teacher is to perform the following tasks:

The tasks :

i) A concept is composed of a number of sub-concepts. The tracher is to identify and indite various sub-concerta al explain these in ligited so menue.

il) Each sub-concept has cortain significant aspects. The teaher in the identify the significant aspects of various submineepts and focus the learner's attention on them. Focuss, ing could be done either through verbal explanation or gestural explanation or explanation through audio-visual devices. Thus, the teacher should be able to discriminate between significant and non-significant aspects of the subconcepts for effective focussing.

111) The teacher should give specific and relevant examples of illustration to explain the concept of a phenomena, an event or an object. The examples and illustrations facilitate

explanation.

iv) Specificity is using languages facilities verbal explanation. The teacher, shoul' use specific words, phrases and sentences during the process of verbal explanation.

v) The teacher should explain new terminology related to vari-

ous sub-concepts, if any, during the process of explanation. vi) The teacher should test the entry competancy of the learners or the previous knowledge before he starts the task of explanation.

vii) The explanation should not be started abruptly. The teacher should give preliminary ideas, hints or clues about the concept before the explanation starts.

viii) Verbal explanations should be supplemented by the explanation through audio-visual devices. The learners should be exposed to concrete objects through audio-visual aid or demonstration.

ix) The teacher should identify the cause and effect relationships and should offer reasons during the procees of expla-

nation.

x) The teacher could compare, contrast and classify various objects, phenomena and events during the process of explanation.

xi) The teacher should generalise the conclusions of the expla-

ined concepts.

xii) The teacher should also interpret the implications of the

conclusions that has emerged as the byproduct of explanation xiii) The teacher should encourage the learners to explain various objects, phenomena, events related to different sub-concepts in their own language. From the explanation of the students, the teachers would get an idea about the effectiveness of his explanation and the teacher may formulate strategy for fredback.

The skill of illustrating with examples & The skill of illustrating with exemples helps the stirient-teachers in explaining or cla rifying various abstract concepts related to the content areas of various subjects. The skill of illustrating with examples plays a significant role in various teaching methods like inductive, deductive, questioning-cum-discussion, demonstration and problem solving. In inductive approach the teacher starts his activity by giving a number of specific examples in order to illustrate a concept related to a phenomena, an event, an object, a rule or a principle. The teacher concludes his activity by drawing conclusions about the nature of the concept on the basis of the examples given. In deductive arproach the teacher starts his activity by stating the salient features of the concept. Subsequently, the salient features of the concept are explained with the help of illustrative examples. In questioning-cum-discussion method, the teacher gives stecific and relevant examples to explain the concepts. The examples facilitates explanation during the process of discussion In demonstration method alcothe toacher illu creted the concepts with

relevant examples. In problem a laint method to the tracker illustrates the broad learning problem areas related to the contents of a subject, various problem solving competancies; various problem solving techniques, the procedures of framing objectives and the techniques of evaluating the project outcome with relevant examples. The teacher also provides feedback to the Tearners through example at every step of the project.

The skill of illustrating with examples would equip the student-teachers with various competancies required for effective execution of teaching-learning. It will help the student-teachers to proceed from concrete to abstract. The concrete examples could be given to clarify the abstract concepts in various school subjects like sci nce, mathematics and geography. Thus, the prasentation of concrete examples would lead to, abstract conceptualisation. The competancy in the skill will help the student-teachers to move from known to unknown also. The examples should be arranged in known-unknown sequence in order to illustrate various abstract concepts. The skill would further help the student-teachers to move from simple to complex. Simple examples should be presented in the beginning of the lesson. Gradually, the difficulty value of the examples could be enhanced. The presentation of examples in simple-complex sequence would help the learners to process the informations effectively. The examples should be specific and pinprinted. Since specificity helps effective recreeptualisation, the learners would not be able to perceive a thing or a phenomena or an event from vague or generalised examples. The examples should be relevant to the content areas. In order to sustain attention and interest in the learners the verbal examples should be supplemented by multidimensional channels of giveng examples i.c. maps, charts, models, pictures, sketches, diagrams and living speciments. The teacher could also organise the activity examples. In order to organise teaching learning strategy in the subject areas like socially useful productive work or working with the community, the teacher may encourage the learners to observe and to participat in various productive and working situations. The student's observation and participation in the community working procedure is the technique of roviding activity examples to the learners. The teacher should judiciously apply and very different techniques of giving examples, i.e. verbal examples, examples through aulio-visual divices and the activity examples. Again, while selecting the appropriate technique of giving examples, the teacher should consider the cognitive competancy of the learners.

Skill of stimulus variation - The skill has the following components:

- a) Movements from one place to another with a definite purpose.
- b) Gestures (movement of head, hands and body to direct attention, express emotion or indicate shapes, movements etc.).

c) Change in speech pattern,

d) Verbal, gestural or verbal-gestural focussing (e.g. the teacher says 'look' and roints his finger towards something).

e) Change in interaction style from one to another (e.g. teacher-group, teacher-pupil, pupil-pupil).

- f) Oral-visual switching (change in the medium from oral to visual, oral to oral-visual, visual to oral-visual and vice-versal.
- g) Pausing (shirt delebrate intervals of silence while conveying information, explaining etc).

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Institutional Hamming

Dr. D.K. Bhattacharjee, Reader, Regional College of Edn., Bhbaneswar

- Introduction : Educational Flanning exercise are done at various levels.

- 1) If the planning exercises are done at national level, it is known as macro-level.
- 2) Planning exercises done at state-level/regional level are known as meso-level.
- 3) Planning exercises undertaken at district, sub-division or block level is known as micro-level.
- 4) Flanning exercises undertaken at school/institution level is known as Institutional Planning.

No comprehensive programmes of educational development can be undertaken unless systematic planning is done at all the levels. Planning exercises done at all levels are mutually interdependent. Thus the concept of multi-level planning comes.

Concept - Institutional planning may be described as a systematic approach to prepare comprehensive plans of educational development at institutional level.

Frocess of Institutional Planning - Institutional Planning involves the following steps :-

- 1) S. tting objectives The objectives are derived from aim or purpose of an institution. Primary objectives of an educational institution could be divided into three groups :
 - a) Teaching-Learning in class room.
 - b) Teaching-learning in out of class moom.
 - c) Extension services such as various community related activities like adult education, literacy programmes, youth services etc.
- 2) Wientification of problems and needs which would depend on (a) analysing of existing situation, (b) Projection of future requirements. For example we may project future enrolment staffing requirements, building requirement, apparatus and equipment requirements.
 - 3) Assessment of Resources.
- 4) Determination of priorities We may determine literacy improvement as priority or laboratory improvement as a priority.
 - 5) Plan Formulation : This would involves -

 - i) Setting targets
 ii) Financial implication
 iii) Human & other inputs
 iv) Choice of techniques

 - v) Time schedule
 - vi) Inter-agency co-operation/inter-departmental co-operation.
 - 6) Flan implementation This step involves :

- a) administrative approach
- b) Resource motivations
- c) Economy of resources
- d) Alternative measures for certain agencies
- e) decision making f) inter staff co-ordination
- q) Monitoring of chst and time factor
- 7) Monitoring and Evaluation -
- i) Regular staff meeting
- ii) Meeting with other agencies/departments
- iii) Discussion problems of implementation and suggestion in quarterly, half-yearly, annual review meetings in Governin Body/Panchayet etc.
 - 8) Revision of t'e Plan & Techniques of Institutional Plannin
 - i) Minimisation of cost and maximisation of output.
- ii) Quality control
 iii) Effective utilisation of resources both human and nonhuman inputs
 - iv) Participatory planning with the help of teachers, parents and education departments
 - v) Realistic and practical approaches.

Scope - The scope of institutional planning would cover both quantitative and qualitative aspects of development of an institutio The following list of areas is only indicative which would vary from situation to situation.

- 1) Teaching-Learning in the class room.
- 2) Out of the class room activities.
- 3) Faulty improvement.
 - 4) Building & Equipment.
 - 5) General'Administration.
 - 6) Financial Management. Congression of Fried Edition
- 3) 1 (1, 1), 1, 11, 11.
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Guidance for Mental Health in Schools * sort a n 特殊 Ti Committee 14 / 1 res dans 11 (13) ogar. Athlete 4 14 11

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18 2 15 Lecturer in Education, Regional College of Education, Bhubaneswar had a " 4 - 41 /4 3"" [14] [1 के राजा के रही विद्याल का स्थापन के स्थापन זי irl ynlanosog fich a b ample of the first with a Bur Part 11 يرا) ، The state of the s and the self allow the and gefongen gebonen' bie bedtamme fo feber In its T 1.71 3 3 processing the second of the second s mine! Per n only con a The death to take the

short, physical fitness for living a happy life stands, for a good physical health and vice versa. .)

symbolizes mental readiness and willingness i dings of a White House Conference figures. 'with which we' identify ourselves with our " work or are found to be indifferent towards : it. It is the norm of fortitude and firmness with which we act and react with our environment. A relatively consistent mood and a" persistent make-up of the mind are the salient indicators of our mental health. Our mental health serves us as the mirror to look at ourselves and perceive the world around us.

Physical health and mental health are the inseparable elements of one and the same composition. Each one is very essential for

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DHYSICAL health accounts for the nature of 1 the build-up of the other one to result in the our physical structure. A. physically personality of our making Personality is healthy, individual, enjoys, a trouble-free, known by our character in action. The charmechanism of his organism. He records a acter is the blend of values and attitudes in normal temperature, pulse-rate, heart-beat and, our personality get-up. In a close proximity to a steady blood-pressure. This state of physical these pertinent concepts, the concept of men: health promotes his efficiency at his work. In 1 tal health involves one's bent of mind, one's outlook towards life and style with which one conducts oneselfic in day-to-day life. To it is then a factor with described the deconcept of mental shealth. Mental health is an index of the mind. "It' Bernard (1961,p.19) quotes from the procee-

> Mental health may be defined as the adjustment of individuals to themselves and the world at large with a maximum of effectiveness, satisfaction, cheerfulness and socially considerate behaviour and the ability of facing and . I secepting the realities of life. The highest degree of mental health might, therefore, be described, as that which permits an individual to realize the greatest success which his capabilities will permit, with a maximum of satisfaction to himself and to social order and minimum of friction and tension.

A sound mental health visualizes an idea to be the second to be filest (bn g way of life for an individual. It registers his best of placement in a socially approved world of his own choice. By virtue of his command over the skill of living a fruitful life, he lives a life of self-satisfaction and social contribution. Inevitable experiences of windfall fortunes and unforeseen misfortunes in worldly affairs, usually fail to destabilise the well stabilised mentally healthy person. However, in no way, from this it should be construed that he lives a static life. Mental health is acknowledged to be a progressive and dynanuc concept A mentally healthy person feels proud of his strengths and is well contained in his limitations. He is prejudiced towords one who cherishes due respect for the An integrated, welluniqueness of others. composed, self-reliant and ardently deter-1010 d person only can justifiably claim a aread mental health.

In this context the concept of mental hith may be quoted in the words of Dana I. Inworth from his paper entitled, 'Mental Health—Implications for Teachers', contained in Torrance (1965, p. 184).

Mental health entails freedom with responsibility, self-reliance and a genuine concern for the common welfare. It is not freedom from anxiety and tension, not freedom from 'dissatisfaction, not conformity or constant happiness or a lessening of accomplishment and creativity or the absence of personal idiosyncrasies. Furthermore, nor it is in any way opposed to religious values.

Rogers (1957, p. 5) writes the meanings of mental health in these words.

Mental health implies a satisfactory relationship to one's self and to one's environment, as well as the possession of problem-solving techniques for establishing a satisfactory relationship between the two.

The mental health can be defined as the behavioural characteristic of a personality. A ound mental health which may be sought

after by all of us carries a homogeneous structure of desirable attitudes, healthy values, righteous self-concept and a scientific perception of the world as a whole. At the same time, a mentally healthy person should be understood as a dynamic and conscientious individual, who is found to be reasonably rational in the choice of means for the realisation of his pious ends.

Genesis of Mental Health

Mental health as an index of the mind predominantly touches upon the affective domain of one's personality. In this respect, it has much relevance to his emotional development. Practically, the mental health of an individual manifests itself in the nature of his patterns of adjustment in life in pursuit of an amicable settlement with his environment. That way, adjustment owes much explanation to mental health. It suggests a bi-angular analysis of emotional development and the process of adjustment for the study of genesis of mental health.

Emotional Developnient

Emotional development rests upon the inculcation of emotions and their perpetuation in a certain design of organization in one's personality structure. The feelings of love, affection, sypmpathy, fear, jealousy, joy, anger, kindness, etc., are the popularly known emotions. These emotions go to mould the mode of our momentous thinking and virtually bring shape to the consequent style of our living behaviour. The loving and affectionate attitude we cherish for ourselves and for others essentially emanates from the healthy emotions we come to imbibe in our temperaments All kinds of prejudices, biases for others and dislikes for our personal lives. are actually the symptoms of a faulty emotional development. It prompts us to examine on es a clear idea of one's mental health.

Emotional maturity and a sound mental health go together. They make a logical co-existence and cannot be imagined in isolation from each other. A sound mental health draws its sustenance from emotional maturity which, in its own turn, is sustained and strengthened by mental health still further.

Emotional development follows the phenomenon of learning in one's life. It is 'he nature of feelings relished, experiences met and opportunities availed for their reinforced practice which determines our emotional development. The home, society and school provide us the required environment in which our emotional development takes place The saying 'love begets love' can further be stretched as, 'jealousy breeds jealousy', 'sympathy, develops sympathy', and so on. That is to say, to foster a healthy emotional development in an individual, emotionally congenial surroundings are required to be made available to him to interact with. A healthy emotional development so facilitated subsequently reflects itself in the emerging mental health of an individual.

Adjustment >

The mental health, as understood by the style of life, may find its genesis in the process of adjustment involving an individual and his environment .

The process of adjustment consists in one's consistent quest for the satisfaction of one's . personal needs while working within the constraints, expectations and limitations of opportunities imposed upon one by the external demands of one's own social milieu. The personal needs are aroused by one's drives, urges and ambitions. They are also known as an ind'vidual's intrinsic needs. The mental health is determined by the adjustive behaviour in terms of how well it meets the

emotional development in an attempt to have external demands and satisfies the intrinsic needs of an individual.

Intrinsic needs have been discussed in various ways. Murray divides all needs into. two groups : Viscerogenic needs (air, water, food, sex, avoidance of injury, etc.) and psychogenic needs (achievement, recognition, autonomy, affiliation). Freud puts these needs under life-instinct and death-instinct. Lifeinstinct includes several, impulses as well as the urge for self-preservation Death-instinct not only includes self-destructive tendencies but also incorporates aggressive and hostile feelings towards others. Adler comes to note that most of our life activities are devoted in satisfying the desire for status has stated that preservation and enhancement of the phenomenal self are achieved through the satisfaction of four fundamental needs: the need for physical security, emotional security, achievement, and need for status Maslow has propounded a hierarchy of eight needs: (1) physiological, (2) safety, (3) need to belong and be loved, (4) need for importance, respect, self-esteem, independence, (5) information, (6) understanding, (7) beauty, and (8) self-actualization In Maslow's concept of needs, the satisfaction of all needs is instrumental for the satisfaction of our ultimate need of self-actualization. The need for selfactualization stands satisfied only when an individual comes to the realization that his self best been utilized. Another writer, Bernard, makes a three-tier classification of personal needs; (1) physiological needs-food, shelter, clothes, rest, relaxation, etc. (2) psychological needs-security, curiosity, achievement and need for independence, and (3) social needs-need to love and be loved, , companionship and recognition.

That a sound mind dwells in a sound body illustrates the fundamental role played by the satisfaction of organic needs of an individual in the development of his mental health, Actually, the satisfaction of physical needs lays the foundation of any worthwhile mental health.

The confidence, determination and will with which we love to live life is basically inspired by our self-concept. The self-acceptance forms the nucleus of any potential selfconcept. For an appropriate self-acceptance, the needs of security and worthiness need be adequately satisfied. The need for curiosity is satisfied by our involvement id creative activities. This brings us a lot of happiness. Each and every bit of achievement adds lustre to our life. The opporturities available for working independently towards successful ends, make us genuinely contented and satisfied-all this goes to strengthen our mental health in its right direction. We are loved and our love is wanted by others, we have friends around us and thereby our recognition is guaranteed, all this gives us an alluring outlook towards life The satisfaction of psychological and social needs helps us a lot in the manifestation of a sound mental health.

It is the satisfaction of various needs which gives us the pleasure of enjoying The attainment of selfself-actualization actualization is the climax of our reaching an ideal mental health. The satisfaction of our needs does not take place in a piecemeal manner The satisfaction of one, need is interlinked with the satisfaction of other needs. The needs of food, water, house and clothing are not separate from each other. Similarly, the satisfaction of recognition, achievement, curiosity, independence, security, companionship and the need to love and be loved should not be justifiably discussed in isolation from each other as they cannot be satisfied exclusive of each other. The satisfaction of personal needs within the framework of external demands underlies the development of a sound mental health

We cannot take liberties to satisfy our painful experiences of our daily life. For needs by one and all means There are social the sake of our sound mental health, a judinorms, restrictions and disciplines, we are I clous place of these mechanisms in our inter-

told to abide by them The culture of the society, the traditions and conventions of the family, the rules and regulations of our estabslished groups and the taws of the land place the external demands on the permissible means for the satisfaction of our personal needs. External demands are also made on us by the society in lieu of the infrastructure provided by it for the satisfaction of our personal needs

'The satisfaction of personal needs is the crux of the matter in the discussion of the question of mental health. Within the pulls and pushes exercised by the external demands on us, we have to furction within our own strengths and weaknesses to assert for seeking an ajustment in life. Confronted with many needs, we have to pick and choose in the light of personal abilities and resources available for their satisfaction in our respective 'life spaces' Though this exercise does give us a good start yet the road to reach satisfying adjustment poles and attainment of sound mental health still remains to be a little bit thorny one. We are liable to meet stumbling blocks giving rise to failures and frustrations in our daily life We can also be infected with conflicts and complexes in the process of adjustment. We may have to review our needs and renew our working strategies for their adequate satisfaction. The moments of anxiety and tension become the natural outcomes of delayed fruitful results of our endeavours. We may rescue ourselves from these trying situations by falling prey to adjustment mechanism. Daydreaming, rationalization, projection, identification and withdrawal are some of the wellknown mental mechanisms to which we all resort to knowingly and even unknowingly. These adjustment mechanisms serve to give us a timely relief from the unwanted and painful experiences of our daily life. For the sake of our sound mental health, a judi-

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action with the surroundings is perfectly justified. But a ruthless application of adjustment mechanisms in the satisfaction of our personal needs is an indicator of unhealthy mental health.

In conclusion, we may say that the genesis of mental health, may be reasonably examined in emotional maturity and in the process of adjustment. In turn, they themselves are the results of experiences we come across during our interaction with the environment. All the more, both of these explanations are complementary rather than supplementary to each other. The nature of emotional maturity and the patterns of adjustment we profess in our life go to determine, the kind of mental health we come to cherish.

hiental Health of Children

In the all-round growth and development of children, their mental health is considered to be a matter of major concern. To make and mould children as good learners, persons of fine traits, worthy citizens and efficient workers of the society, there is an urgent need to be particularly attentive to the nature of mental health which the children should incorporate in their personality make-up.

Truly, it is in the home, where the formats of prospective mental health of children are actually preceived. Virtually, the home sets the pace of mental health of budding citizens of society. A loving and affectionate treatmeat enjoyed by children at home nurtures outstanding features of emotional maturity in their temperaments. The satisfaction of physical needs at home initiates the development of a good mental health. Contented and satisfied parents through their practising styles of lite foster desirable modes of life amongst their children. What and how that all happens in the home, the character of the family members, the practices carried on and what is theirshed and discarded in conducting

family affairs leave formidable impact on the mental health of the children.

For obvious reasons, children from broken homes are usually susceptible to the symptoms of unhealthy mental health. Parents' indifferent attitude, self-involvement and their sparing hardly any time leave bad impressions on the Impressionable minds of their children. Culturally deprived children are usually deprived of the experiences essential for their emotional development. Socially disadvantaged children are denied even the satisfaction of their basic organic needs whereas their psychological and social needs go entirely unheeded to A bulk of emotionally disturbed children come from such backgrounds When behaviour of such childten comes to hurt others, it is known as problem behaviour. This type of children needs the case of society and school especially to re-huild their mental health broken or left unattended to at home.

Society plays a crucial role in the development of mental health of all its members in general and children in particular. The customs, conventions and traditions and norms of behaviour along with fruitful practices of society leave substantial bearings on the minds of children. The welfare schemes launched by society and pursued vigorously for the hehefit of its needy children, save them from the hazards of unhealthy mental health. The . social security measures undertaken by society, provide the children feelings of security and worthiness. Recognition of each and every child's worth is a pre-condition for inculcating, sustaining and strengthening the mental health of society itself.

Society provides a network of useful informal agencies of aducation to its children. Radio, television, and cinema and political, religious and cultural institutions and organisations play an important role in the education of children. The leaders of society, in

their own designs, try to prevail upon its members. The children are the first to come under their influence. The combined impact of men, morals, matters and materials of society can hardly be overviewed in the shape of things which eventually come to play in the horizon of the mental health of children

The school is a specialized institution of education that has been established by society exclusively for the benefit of its children. It provides children a good substitute to the family and presents before them a miniature form of society Instituted as a formal agency of education, very high demands are made on the school The cultural heritage of society is desired to be preserved, protected and promoted through the school. For all practical purposes, the home expects the school to take care of its children These expectations can be deemed to be realised to the extent the school functions for the development of a desirable mental health of its children

In the school programme, the teacher occupies a pivotal position. It is believed that virtually he stands to determine the effectiveness of the process of education. In this realm, the teacher's effectiveness is examined in his contribution to the all-round development of children. In this criterion of judging effectiveneness of the school, the feacher's personal mental health is duly taken into To be an effective ideal consideration for his students, the teacher must be the custodian of a sound mental health. And for this, the teacher needs be a man of emotional maturity, a man of calibre and high moral character who should feel really contented with his lot in this satisfaction of his needs while working in the teaching profession the phenomenon of interaction in education, it is only a professionally competent and skilled, mentally healthy teacher who is in a position to contribute his bit to the development of a sound mental health of his students.

A school staffed with mentally healthy

teachers can reasonably be taken to be well set to work for the development of sound mental health of its children. The popular dictum 'well begun is half done' fits quite well here. What more is needed in this direction is that all children, irrespective of their individual differences, must be given warm feelings of their being welcomed, wanted and accepted in the school. The courses of studies, including co-curricular activities, should respond to the interests and aptitudes of children. All children should find ample opportunities to explore themselves and cherish the best of placement in the school The children should relish recognition within themselves, from the teachers and the school community alike. The school's interest in the personal problems of students with respect to their studies, games, hobbies and the problems concerning to their homes, goes to make them identify with the school The children may experience unpleasant moment in their efforts but only to serve them to multiply their efforts for the achievement of unachieved goals. Failures should not be allowed to dishearten them but made to act as stimulants for learning the patterns of adjustment. The teacher's reliance on students as responsible individuals and allowing them a sufficient chance to act and interact independently goes a long way in strengthening their self-concept underlying a sound mental health.

In teaching-learning strategies, the school's due concern for emotional and social development invites our attention in context of the resulting mental health of children. We have to work for the development of healthy values and better insights in their thoughts and actions. This cannot be and should not be left to a chance. Clilidren need guidance for both the ends and the means they should aspire and work for. It is heartening to note that lately we have adopted a realistic approach to sex education. It calls upon us to change our minds towards imparting moral education to

children. It should be made an essential feature of school programme. The status of health education in schools should be rationally upgraded. The development of strong character for a sound mental health cannot be imagined without developing spiritual values in the patterns of behaviour of children. And for all this, a psychological approach on the curriculum should replace the prevailing conventional practices in schools

Briefly, it may be said that children are the joint responsibility of home, society and the school. They should be well aware of their respective individual obligations and a combined role expected to be played by them for the all-round development of children. It is very pertinent to arrive at and gear up well-defined coordinated efforts of home, society and the school to discharge their one-rous duty of giving a specific direction to the development of mental health of their children.

Conclusion

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We have come to live in a difficult complex world. There is a question making appropriate choices, plans and adjustments at each and every step of life. We all stand in need of guidance to make a successful struggle for

existence Education for life or education is the preparation for life becomes meaningful only when education in schools means education for development of sound mental health of children.

Education for, character and development of an integrated personality entalls guidance tor mental health in schools, Guidance as an individualized aspect of education facilitates each and every child to develop a righteous self-concept and a scientific perception of his surroundings That children should develop healthy attitudes and desirable values, acquire problem solving techniques and become selfdirective and self-reliant, has been visualized as the tasks of guidance movement in schools. Guidance workers enlisting the cooperation of teachers and parents while working in the prevailing social set-up, endeavour to help children develop mental health which should fetch them individual satisfaction and enable them to live a socially useful life.

In these critical times of crisis of character, growing indiscipline and restlessness within the minds of the youth, guidance for mental health is an urgent need to give any meaning and purpose to the process of education in schools.

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1. Research

Tradionally, research has been acknowledged as an area of intellectual exercise in the pursuit of establishing fundamental truths of life. It is considered to be the domain that is exclusively meant and that has been reserved for intellectuals only. Research, as such, has been virtually viewed as the seat of wisdom.

Research is a thoughtfully speltout, systematically designed and very intelligently conducted creative activity.

In modern times, research has become a part and parcel of each and every human engagement. Research and Development (R&D) unit constitutes an important wing of each and every well established institution, organization and establishment, that is anyway worthy to be received which. There prevails a furtional research culture in all departments of present day life.

Research leads to innovations. Research results in new theories and innovations. Efficiency is enhanced and quality of production is improved upon by research programmes. Civilisation of the day in all its facets is accredited to research of one kind or of another kind.

Research is an insightful learning. It is a passion for learned people. A cretative mind finds its real life in his it research programme. In the quest of achieving an excellence in human life, research is a momentous movement of research oriented people.

Recentch is like a mission of missionary like people to render a humane service to humanity in the best of its missionary like spirits.

2. Research in Education

Education has come to function as a specific process-programme enunciated by the society that is specifically meant for facilitating the healthy allround growth and development of children. In this man-making, character-building process, there are many pertinent questions which have been very scientifically answered by the research workers engaged in educational research. It is on the basis of educational research findings that a number of vital theories of learning have been developed, methods of teaching have been arrived at and adequate gide lines for curriculum have been chalked out for the children of different age groups. The entire system of pedagogy has been greately benefitted and emriched by the valuable contribution made to it by research in guidance/education.

Educational research has established education as a scientific process. This has fetched Research in Education, a place of fundamental importance in the entire spectrum of research activity in the society. Research in the field of education is being recognised as equally challenging and fascinating to the educational researchers as it is found by researchers engaged in any other discipline of knowledge.

Till recently, recordiers in education were not really the field workers in the process of education. Research in Education has been the domain of research workers who themselves were not found actively involved in the process of education. However, these research workers have produced and supplied a good amount of constructive research results to the consumers who are actually running the process of education. These out of the field research workers in education have laid emphasis upon what the teachers should teach and what not to teach, how to teach and how not to teach, who should teach and who should not teach. The kind of research pursued by these research workers is known as pure-research, fundamental research, normative research and historical research. The significance of the contribution made to the process of education by these researchers can hardly be underestimated by any one. Actually they constitute the team of builders who have built up the modern system of education, as such.

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3. Action Research

Action research is focussed on the immediate application, not on the development of theory, nor upon general application. It has placed its emphasis on a problem here and now in a local setting. Its findings are to be evaluated in terms of local applicability, not in terms of universal validity. Its purpose is to improve school practices and, at the same time, to improve those who try to improve the practices: to combine the research function with teacher growth in such qualities as objectivity, skill in research processes, ability to work harmoniously with others and professional spirit.

⁻ John W. Best ; Research in Education.

Frontice Hall of Judia, 1982, p. 22.

Action Research is more or less a recently introduced novement in Education. In this type of research, teachers teaching and educational administrators in schools and colleges are found to be actively engaged in research in education. Action research is the research in which practising personnels in the process of education arrive a systematic designs of research problems to be researched into at their own levels that they themselves happen to face in their routine duties.

Educational personnels (tenchers, counsellors, resource persons, social workers, headmasters, educational administrators) who are passionately committed to the cause of education, emerge as action researchers in the process of education.

4. Action Research and Teachers

a kind of

Action research is the potential research in education, in the same that prediminately the need of it is felt by persons in action in the process of education. It is for this reason it is known as Action Research. These researchers are mostly teacher-researchers who conduct the research and test the validity of its results in the real teaching-learning situations. These action researchers are supposed to have real perspectives of their research problems at hand. It helps them formulate their insightful hypothesis of the problem, too.

Getting into Action Research, on the part of teachers manifests their genuine concern for the day-to-day problems that they themselves foca in their teaching profession.

They research with onlyings to understood the problem, find

its solution and improve upon their teaching efficiency.

It adds to their competency and effectiveness in teaching profession. The feelings of accomplishment which they happen to nurture on the successful completion of their action research projects makes teachers still more creative and venturesome in the performance of their duties. While substantiating the effectiveness of the process of education as a whole, action-research poised teachers make a noteworthy headway in their personal as well as in their professional growth and development.

Teachers involved in action research are deemed to be conscientious teachers, dutiful teachers who have an ardent desire to do their best in the teaching profession. Teachers who cherish no inklings for analysing their day-to-day problems in teaching may be taken as devoid of their true love for their teaching profession. They are just teachers by dint of their own pressing compulsions who have yet to develop the required commitment to their profession. Teachers who feel proud of teaching profession as their ham beloved career enjoy undertaking action research projects as the matter of their pet pastimes.

Involvement in Action Research should be taken as essentially the teachers' own prerogative. It should not be imposed upon them. Action research should be taken by teachers as a matter of their went sweet will. What is urgently warrented in this direction is that the teachers should be duly motivated for undertaking action research programmes as a part and parcel of their routine professional obligations.

5. Willyables of Teachers for Action Research

For all practical purposes, teachers in their own interest on in the interest of teaching profession as such should have a forcingiton for action research. Research in Education when it is essentially conducted by a process of aducation that is not supported by Action Research remains to be research for research sake without having bearings on the teaching-learning strategies being followed in the process of aducation. Research in education becomes meaningful and it revails upon the prevailing thoughts and practices of the system of aducation when it is essentially conducted by increase of aducation when it is essentially conducted by increase of aducation when it is essentially conducted by increase of aducation teachers and educational administrators of action?

their day-to-day pertinent questions with an analytical bent of mind. They should be encouraged to develop an urge to make well designed investigations into the ticklish problems that they happen to face in their daily teaching process.

To there are really active in their duties when they are found involved in Action Research.

Me should have pre-service courses of studies on Action Acsearch at the very threshold of teachers joining the teaching profession. While in service, teachers should have refresher courses on Action Acsearch. While in service, they should not be over-leaded with routine classroom teaching and with other panel duties but they should been sight of

Action research seminars in schools x can be found very useful for motivating the teachers to take up action research problems for investigations at their levels. Some kind of consultancy service can also be instituted in the schools for the purpose. Headhaster/principal is also expected to give good guidance to teachers to carry on action research in schools. Actually, heads of educational institutions should instil an inspiration amongst teachers for pursuing action research most willingly. The headmaster should also formulate team-action research designs in which a team of teachers should be actively involved. The headmaster as a leader, should never be found falling in providing his leadership to action researchers in his school.

If we are really interested in action research, its
financial espect should not be overlooked or set aside so very
wasually. Teachers involved in action research or ready to
enter into it, may need financial assistance to support their
research projects. Although a close scrutiny may be very much
desirable before sanctioning financial assistance to the teachers
for their action research projects but this all should be done
with an open heart without any palice or prejudice towards the
concerned teachers. At the same time, a true action researcher
should never mind and have the pleasure of financing his research
from his own pocket, too. He should not take it as taxing to his
purse. He should take it as the most desirable investment for
his personal growth and satisfaction. A true researcher should
not depend upon the mercy of people who matter in the process

projecto. A research should be taken as a mission towards which a specific of some money must be taken as a matter of privilize.

TOTAL, UGC, and CSIR have elaborate programmes and schemes to dimpace revenich projects. Such like schemes should also be discorporated in the schemes of DIETs.

Millist runs a Seminar Readings Programme for action research projects. Selected projects are awarded a merit certificate of National Award with a prize money of Rs.1000/- each. Such like schemes of reinforcement and recognition is need be launched at State and District levels, too. Action researchers should get interestives in the form of additional increments and out-of-turn promotions in their professional careers. All the more, State should give a wide publicity to the best adjudged action research projects as they may really deserte.

6. Problems for Action Research

There can be a long list of problems which can be considered for Action Research. Teachers themselves are the related paraons to select their own problems which might be haunding them in their work. However, for illustration sake, some of the problems can be enlisted as:

Students may be studied for their :

- Study habits,
- adiotivation for studies.
- Attitude towards studies.
- likings for each other,
- Likings for teachers,

- Family backgrounds.
- Attitude towards hometask,
- Adjustment at home,
- Adjustment in the school,
- Mental Health,
- IQ and Creativity.
- Perception of teachers' quality of teaching.
 - .. Perception of environmental factors affecting them.
 - Perception of School Organizational Climate,
 - Special needs.

A student who is found to be an excetional one (gifted, slow learner, delinquent, quarrelsome, handicapped) may be attuded with the help of Case Study Methid.

Experimental designs like the following ones can also be thought of under Action Reseach programmes:

- Impact of personality of teachers on the learning of students in terms of their academic achievement.
- Teachers' pre-paredness for teaching and students' learning thereof.
- A comparison of the effectiveness of methods of teaching.

In collaboration with counsellors in schools, teachers can enter into small but very useful action research studies with the tools and techniques of interview, observation, check lists and rating scales. Once a researcher, also the action researcher enters into research activity, he visualises his own plan of action.

7. Stept in Action Research

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An Action Research project may be illustrated for

7-1 Blair and of the Problem

The tracker visualises the problem. To begin with, he has to delive the problem in its very concrete form. For this has not to give a deep thought to it. For further clarification he may discount the problem with his colleagues. He should make a little bit of survey of literature especially related to the problem at his hand. This helps him to get at the real footings of the problem. In this statement of the problem, the tencher is expected to have the clarity of the perspectives and limitations of the research problem.

For an example, the teacher may observe that students and red-being found duly inclined towards their studies. Students' poor performance in examinations may lend im accidence to teacher's contention. There can be many reasons for students' failure to make satisfactory achievement in studies. Now, in this context, one relevant aspect may be to study students' attitude towards studies. Here, it may be noted that students' attitude towards studies may be influenced by many factors. But for the action researcher, here he is only concerned with the factual study of students' attitude towards studies. He is not concerned with the factors building up or not allowing to build up healthy attitude of students towards their studies. So, he comes to make the statement of

of his Action Research problem as:

ASTUDY OF STUDENTS! -ATTITUDE TOWARDS THEIR STUDIES. Does a radical attitude towards his radices affect. Ris achievenuest

A hypothesis is the visualised answer to the research problem under investigations. It illustrates purelfy a tentative answer to the problem in the background of which the researcher may get into his research activity. A hypothesis is examined for its acceptance or rejection on the bases of the findings/results of the research study.

In the above cited research problem, the teacher has undertaken this study with the notion that students fail to make academic achievement up to his expectations because of their lack of healthy attitude towards their studies. That means that the teacher thinks that students do not cherish a good amount of positive attitude towards their studies. For this, the hypothesis for this problem may be formulated as, "Students lack a desirable level of positive attitude towards their studies."

It may be pointed out that it is not very essential that each and every action research problem must be backed by its hypothesis. Rather than starting with a tentative answer to the question of the research problem, the researcher can straightway start with his investigations to find out the answer to the problem.

and it is not feasible and it is not feasible and it is not feasible and it is also not required to include the total population of attraction. Statistical techniques help us to study the problem ow on their population known as sample of the study. For the series of our present problem, we may say the sample of the ctudy shall be constituted by the students of Class V.

Tel Tred a mad Rechniques

Tools and techniques are the wheels of a research processe. The researcher to begin with his work begins with his research into the tools and techniques for the study of his problem. He should be conversant with the tools and techniques available to serve his purpose. He has to wake a very wise choice of tools and techniques are his inventigations

At elementary school levels, we may conduct our oction remarch with the help of interview of students and their parents. An interview schedule may be developed with natural discussions amongst staff members. Students' attitude towards their studies may be studies by asking students questions on their likings for studies, perception of the utility of studies for them, likings for the school, altitude towards books, hometask and teachers.*RCEB Scale for Students' Attitude towards their Studies, may be taken as a reference point in this context.

Shoven Publishers, Bhubaneswer, 1990.

A feliable and a valid data is a must for arriving at a reliable and valid findings and for that reliable and valid tools and techniques are but very essential. The researcher to begin with should start his work with will equipped himself with the required tool and technique to work with. He should not coin out a problem befitting to the tool available to him rather he should prefer an action research on his own felt problem itself for which he may even venture to develop his own tools and techniques.

7.5 Data Collection

Once an appropriate tool has been selected, developed or adopted; further need lies in being fully familiar with the techniques of its application. In a pilot study, a try out of it over a small sample of students can also be exercised. The researcher has to be very accurate in his data collection. However, in data collection, we may not expect a beginner to be the master of it but it is definitely desired that we must acquire mastery in this important department of research in due course of time.

7.6 Analysis and Interpretation:

Analysis and interpretation of the data collected determines the merit of an action research project. How to analyse the data, it depends upon the research problem and the data collected.

It is believed that we should not shirk using statistics to analyse the data but we should also not be

over enthusipatic to apply statistics for merely giving the data a statistical treatment. We should be rational in our appreach. It is well advised that the researcher may and some research reports to be conversant with the state nethed of making meaningful interpretations of his data. The analysis of the data must lead to accept or analysis of the data must lead to accept or analysis of the data must lead to accept or analysis of the data must lead to accept or analysis of the data must lead to accept or analysis of the data must lead to accept or analysis of the data must lead to accept or

7.7 Proctic-1 Implications

indicating of research findings in a systematic manner of the finite Dut the researcher should also draw practical implications makes the research study. A record of practical implications makes the research study useful to one and all who are really interested in the improvement of beaching learning practices in a system of education.

8. Suggestive Studies

It is advisable on the part of the researcher to pin-point come follow-up studies to his research study. It will help him to pick up the thread later on as and when he himself likes to extend his completed research study. Suggestive studies motivate the fellow researcher to do note research work on the research problems like the ones undertaken by the researcher concerned.

As for example, here we may suggest studies like the following ones:

1. Strdents attitude towards studies and their family

- 2. Students attitude towards their studies and their achievement in examinations.
- 3. School organizational climate and students' attitude towards their studies.
- 4. A correlational study of students' study habits and their attitude towards studies.
- 5. A study of students' motivation for and their attitude towards studies.
- 6. Students' mental health and their attitude towards studies.
- 7. Students' attendance in the school and their attitude towards studies.
- 3. Students' inter-personal relationships and their attitude towards studies.
- 9. Factors affecting students' attitude towards their studies.
- 10. A comparative study of sportsman wa and non-sportsman for their attitude towards studies.
- 11. A comparative study of attitude of boys and gils towards their studies.



TEACHILLG PROCESS AND ITS EFFECTIVINESS

Dr.S.P.Anand Reader in Education

1. Teaching Process

In the process of education, teaching process occupies a pivotal position. The process of education is set in motion and it is kept in its momentum by this teaching process itself. It may be said that teaching process provides a soul-fibre to the entire process of education.

In its popular perception, teaching process involves the process of imparting instructions to the learners in the proscribed courses of studies in the very formal set of situations. Educational institutions, organizations and established set-ups where tim congunial climate for conducting the teaching process in specifically provided. In this fashion, teaching process is carried on in a class or with a group of people at a time. However, individuals at their personal levels have also been witnessed to engage tubors to receive the required instructions, individually. It looks as if teaching process is an information discomination and receiving process undertaken on contract bacin that may involve a nominal fee or an exuberant monetary transcetion. It gives us an impression of teaching being a business like process in which students are told that what is written in their books, how they should memorise it and eventually reproduce it in their examinations.

However, in the process of education, to look of its

constitutes the complete process of education. Teaching and learning are the two essentials wheels of the process of education. It is presumed that a desirable and a desirably durable learning is only caused by a well designed process of teaching and the existence of a worthwhile teaching process is spontaneously ruled out when it does not result is in a meaningful type of learning. In the process of education, teaching and lerning processes are identically twin processes thich have no separate existence, whatsoever.

Teaching process may be viewed as the causative factor in the process of learning and vice-versa. Teaching process involves an in-put (investment) potential in the process of education which accounts for the out-put (product) in the form of learning. This yield of learning out of the process of education serves as a feed-back to accelrate the process of teaching still further. This cyles of cause and effect relationship between teaching and learning may be construed as the real mechanism of the dynamics of the process of education as such.

2. Effectiveness

The effectiveness of a process is an index of the its success. It is the yard stick of its utility and purposefulness.

And for that, the effectiveness of the process depends won the efficiency and competency with which its it runs.

The grownt of learning in terms of its both the quality and quantity that is generated in the teaching process, measures the effectiveness of the process of education injuneral and of it its teaching process in particular.

In teaching process, personnis held responsible for its conduct are known as instructors, coaches and teachers. In schools, we usually call them teachers, in engineering institutions they are known as instructors and in calleges and universities, these teaching personnels are designated as lectureres, readers and professors. Functionally these all are teachers as they are primarily posted for conducting teaching process at their respective places of placements. The efficiency ic. effectiveness of teaching process obviously rests with the teachers who teach (make an in-put, investment) to affect (an out-put, production) learning in the process of education.

Teaching is the organization of learning. In this process, as a testimony of its effectiveness, teaching is so designed by teachers that the learners really should be able to learn as stipulated in the teaching process.

And, learning is said to have taken place as and when:

a. It augments the phenomenon of assimilation and adoptation to the new set of information in the intellectual horizon of learners. The learners receive, understand and comprised and additional information or knowledge which enriched their existing stock of information which is already available with them.

b. The learner under the influence of teaching process refines his habits, attitudes, values, sentiments, tempraments, perceptions and behaviour as a whole.

c. The learner is able to do something inpotetter form or becomes capable of doing something new in the post-teaching stage.

An effective teacher must be successful in affecting aforesaid three outcomes in the teaching process to establish its effectiveness. Keeping these three indicators of effectiveness of teaching process, we may examine as to what is required in its architects (teachers) to redom these objectives of an effective teaching process.

3. Determinants of Effectiveness

Teacher effectiveness determines the effectiveness of teaching mil process. In this context, teacher effectiveness may be analysed from his:

- 3.1 Qualifications
- 3.2 Rapport with students
- 3.3 Personality
- 3.4 Jcb-satisfaction

3.1 Qualifications

A teacher is primarily an instructor who imports instructions on a particular subject or discipline of knowledge. And for that he is expected to be a man of knowledge and wisdom. He should be a well-informed person in his field of teaching. He is involved in an intellectual exercise of teaching. For his own

success and for the effectiveness of teaching process in thich he is involved in, the teacher is expected to be an above everage intelligent person.

Only a learned person can be relied upon to provide this competent leadership in the process of learning for his learners. Teachers in teaching process should reasonably be highly qualified in themselves who are expected to help their students achieve laudable academic qualifications. They should be brilliant scholars in their respective subjects of teaching. They should keep themselves abreastf of the latest developments taking place in theirareas of specializations. As a whole, they should be Jack of all trades (disciplines of impuledge) but essentially they must be nestern of otherst one of the teaching subjects of their our choices.

Along with concret and specific academic qualification, for being in the profession of teaching, teacher as a real professional workers should also be duly professionally trained for the purpose. Ceneral and academic qualifications them with essential stock of naterial to work with, professional qualifications teach them as to how to teach and conduct themselves effectively in the teaching process.

Academically and professionally qualified teachers
qualify themselves to seek or claim on entry into the teaching
process. They are considered to be prospective effective
teachers in the teaching profession. Inviting and retaining
such like compotent teaching personnals in the teaching

process gives a good start towards the making of an effective process of education of our times.

3.2 Personal equation with students

Teaching process essentially involves man-to-man interaction - on interaction between teachers and touchts is the modus operadi of the process of teaching. It is also said to be the process of human interaction. In this teachertaught interaction, teacher as a senior partner by virtue of his age, qualifications, experiences and placement in the educational institution. He is expected to take a lead to establish a hot line within himself and his students. They chould have a perfect nutual & confidence and trust in each other. A fibre of cordiality and a warm human touch should establish a formidable link between teachers and taughts. They should feel like necting each other, listening to each other and specifing to one enother. Teachers and taughts should bind themselves in spiritual bonds. This will make the task of tenching on the part of teachers, really an effective one which will produce the desirable results to be evaluated in the learning of atudents.

Personal relationships between teachers and taughts, stimulate the teachers to teach at their best and inspire the students to benefit themselves to the maximum possible level. It is only in the background of personal human relationships an effective teaching process can be visualised.

Teachers are essentially intellectual persons but for

the effectiveness of teaching process, they are also needed to be primarily humane by nature. They should, atleast, succeed in corning the love and affection, respect and adoration from their students to enable the selves teach effectively. And for that they should be unbiased in tempranents, free from any kind of prejudice towards students and treat them as most loveble individuals without making any cort of discrimination enong the students, what seems

J.J Personality

Teacher's qualifications and his style of establishing repport with his students do account for some important elements of his composite personality. But still, Personnility stands for something more than this. A silent impact, an unseen penetrating influence and I a ferromething bearing that a teacher leaves on his students, it is attributed to the chrisma of his personality.

A teacher to be firm in his effectiveness, must be a man of character which should be taken for granted as above board-lie should have a clean slate of personal record of his personal as well as of official/professional life. He must be accepted as a man of integrity and honesty. In his manners, he should be attractive and sociable in nature. He should be known for his sincerity of purpose and high ideals that should govern his day-to-day life. He should be accepted as a hero-ideal by his students. His attitudes, values, sentiments, tempraments and perceptions should be worthy of smulation by his students.

A teacher should be able to project his personality
the should be listened to attentively by his students, they
should find in him a true friend, guide and philosopher. Students
chould love adhering to be path shown by the teachers. Teacher's
words should be Cospel for his students. Teacher should
teach character from his own character. Students should learn
attitudes and values from the attitudes and values being practised
by teachers in their daily life. He himself should set an example
rather than making lectures on character and personality to no
weeful purpose. In teaching process, teacher himself should be a
pide -open book for students to follow and arrive at their
own most envisible philosophy of life.

Thatever may be the qualifications of a teacher, in the absence of a towering personality of his own he can never be thought of capable for teaching for the desirable personality development of his learners.

34 Job-satisfaction

A teacher having the required educational-professional qualifications, an ideal personality and even while commanding a knock for establishing healthy relationships with his students, may still fail to function effectively when he betrays a lack of job satisfaction in his teaching profession. A teacher to do his best at teaching must primarily be wedded to teaching, emjoy the teaching and be proud of his placement in the teaching profession. It is only in this state of mind that a teacher teaches duly motivated with gusto. This is reflected in his taking the classes very punctually with due pre-preparation and not of rll feeting proud of his propping the classes very casually

ond on many often. Teachers to reliah job-satisfaction is a change of the policy for reling teaching process as an effective teaching process.

Professional inventives in the form of an adequate of the profession conficient premotional opportunities, congenial working conditions and a description of up in educational which really matter in fractional nearly in a love for the teaching profession in the minds of teachers. They enjoy a respectful status in the society by which of their being teachers, boosts up their morals for teaching most effectively. These illustrated factors found unabling in teaching profession do adversely affect the mental health of teachers and thereby their effectiveness gets a severe not back that may result in telling upon the effectiveness of the teaching process at as such.

In trachers, these four factors have to exist in unison to unable then to teach effectively and a render the teaching process.

to Effectiveness of the process of Education

An effective personality of the teacher in all its facets determines his effectiveness. A consolidated and the combined effectiveness of all teachers determines the effectiveness of teaching process. This describes the functioning of a formal teaching process carried on in formal set of situations.

A network of the process of education includes a formal benching process as discussed above and the wide-open informal

educational process prevailing in the society.

the family pattern of students. Family and society suppliment the efforts of teachers in the formal set of teaching process. Also, the undesirable impact of these institutions on the allround development of learners acts as a subtle impediator in the calculation of effectiveness of teaching process pring on in formal educational institutions. Rather it may be said that society in its culture of social, religious, economic and political practices—activities must have a formidable healthy influence on the learning of learners.

Educational institutions connot chirt the responsibility on Society for their poor results of their teaching process or for the running of an ineffective teaching process. Educational instittuions have to be effective in the given situations prevailing in the society. These should also be effective in counteracting the evil effects of society on the personality development of learners. The process of education has to preserve, protect and promote the healthy cultural traditions of our system. Teaching strategies involved in teaching process will be couply effective in the formal system of education if the system as such in the society cooperates with the emeational instituions. Leaders of all walks of life lee.religious pandits of all religions, social vorkers, non at the helm of offcirs of our economic activities and political leaders of our times have to keep in mind that they are also *teachers* for the learners in their most informal but subtle wayn. This is the combined effectiveness of both formal and

This processes which account for the effectiveness of the processes which account for the effectiveness

In Antonianat of Refordiveness

I complete made possible on the part of learners by the consistent of the effectiveness of the process of equality process is virtually the assessment of the process of equality the descendent of the process of equality the process of the process of equality the descendent of the process of equality the effectiveness of teaching process. Herever, it has been attempted in two ways: Micro process and increase manufactures.

In these exponential the effectiveness of teaching process, we not mention three of its types which are popularily lumin on:

- I. Pro-suge effectiveness
- II. Process effectiveness
- III. Product effectiveness

Sal Pafraga offestivenees

It is relieved that the quality of teachers evaluates the quality of education and its effectiveness. The quality of teachers evaluated for their qualifications and personality gives us a reliable measure of their probable effectiveness in the teaching process. Personally competent and men of character/ansure the effectiveness of teaching process.

9

production and compliment of teachers for the teaching process. Professionally satisfied teachers maintains a high morable while upicolding the high standards of behaviour shoes us a reliable and valid evaluation of their effectiveness in the process of educations this measurement is known as the process of effectiveness of the teaching process.

5 A Propert Charletonous

In process effectiveness of teaching process, teachers of a character of instance of the second of the second of the second of the second of teachers teaching in the electiveness. The exching of accuracy in the evaluation of the electiveness of teachers, their success in motivating the absolute by teachers, their success in motivating the absolute to be attentive and responsive to their teaching, becomes of teaching attentive and responsive to their teaching.

The absolute and their examined over the contents of teaching are the main plants of leading at the effectiveness of teaching are

In pro-sage evaluation of the effectiveness of teaching process, it is inferred from their personality as such but in process-evaluation, the effectiveness of teaching process is evaluated at the spot when the teachers are in action in their teaching. It adds to the reliability and validity of the measurement of effectiveness of teaching process. Teachers classroom behaviour, teaching-learning climate generated in

the december evaluates the process-effectiveness of leading process.

Ed Particos of Problems

The arterie of tenfining process evaluates its product

chieffent which has the results of the tenching process in the form

of the training at the out-come of tenching process are evaluated

of this training to the out-come of tenching process are evaluated

of this training to the out-come of tenching process are evaluated

of this training to the out-come of tenching process and personality tests

of the training to the difference between the pre-tenching

end part-tenening scores made by learners measures the product

of tenching process.

In ancre-effectiveness of teaching process, for all process, we combine the assessment of pre-sage, passent and product type of effectiveness and arrive at a net' persure of the effectiveness of teaching process.

effectiveness of teaching process in its absolute discrete tenus. However, teacher's personality, their mostery over their respective disciplines of impuledge, their styles of interaction with atudents, their professional competency to teach are seen of the good indicators of the effectiveness of teaching process. Itudents being benefitted in the process of teaching in tenus of their cognitive as well as affective development of their unique personalities give us a dependable index of the effectiveness of teaching process as well as of the effectiveness of teaching process as well as of

In sullary

Teaching process is essentially on educational process.

It is a means towards the achievement of the ends of the process of education as such. Its effectiveness determines the effectiveness of the system of education as a whole.

Teaching process is fundamentally the operation-action termitory of teachers. Teachers' effectiveness is an index of the effectiveness of teaching process and thereby of the effectiveness of the process of education in itself. Teachers' effectiveness is determined by their academic-professional qualifications, their conduct with students, their quality of personality profiles and how do the teachers cherish the teaching profession as rewarding and challenging one.

of the process of education. In their teaching, they must effect learning on the part of learners which should be reflected in the quality of their allround development. Individually satisfying and socially useful individuals coming out of the educational-vocational institutions menificat the effectiveness of teaching process in our system of educations.

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A command of Idmonttened Doketty r

Br. F. Dar, Legional Malloy of Min. Dhub mestar

A number of models of classification of objectives has been the temporare. The most convincing of these in recent years has been the temporared model of educational objectives developed by Henjamin of most his research associates in 1956. The classification scheme included three "tempins", the committive domain, the effective ismain, if the asychometer domain. The committee domain deals with the objectives relating to recell or recognition of knowledge on ideal domain includes uch things to integrests attitudes, reactions, values, apprehention and more or depretation skills. The affective domain includes the integral of preparation and more depretation should be characterized skills. This particular paper attempts to lineuss a lumnianal bjectives of cognitive domain.

The first publication to come out of the group working with Block was entitled "Textonmy of D'ucational Objectives - Hand Pock-I: Cognitive Bomain". It is in this publication that the cognitive domain is described and levels within it explored in detail.

The counttive function is divided into six major levels. They are handedge, comprehension, and lication, analysis, synthesis, and evaluation. Let us discus each in detail.

Prophologe: The first and lowest level of counitive moment in knowledge. At this level the student is expected merely to excell information, he as he has bee exposed to or to recognise information presented. The main skill emphasised by objectives written at this level in shaple remembership.

- Phrample 1) Draw the man of Inlin & The the name of three states, West Hingal, Orissa, Bihar.
 - 2) Then a list of 10 people. Underline all the names of famous mathematicians.

Comprehension: The second level of the cognitive demain is comprehension or understanding. It is the view of many educators that it is this level that is meet emphasised in today a schools. Block includes 3 kinds of intellectual skills in the comprehension by vol. The first of these in translation, the ability to make a one-to-one conversion from or language to another. The second skill is interpretation, which is the ability to generalise or larathrase information, and the third skill is extrapolation, which is the shillty to go a little beyond the information given and make predictions based on the informations presented.

- Example: 1) Given a mathematical formula, restate it orally in sentence form so that the restatement is mathematically correct.
 - 2) Compare the educational philosophy of Candhi with Topore and interret.
 - 3) Given a graph chowing the the B.A. examination result of last five year. If he is the result of subsequent year if the in the first in the graph were to continue.

in the student promoting. Bloom described in the student of comprehension and application of the student promoting in the student of comprehension shows that the student is specified. A demonstration of the student in the student of conference, given an appropriate in the student of the stu

the strength emension of a morm and the cost of paint, the cost of paint, the cost of paint will be the cost of the cost of paint will be the cost of the cost of

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there entryries.

If the peries of precise instructional objective that the superfluous in terms of observable behaviour, a ditions, or minimum acceptable standards.

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The state of the forest the data concerning school drop-outs, the state out a hypothesis that would be tested that fould be tested that fould be tested to the state of the st

is the cognitive description of a judgement & is the formation of a judgement & is the first the formation of a judgement & is the first the formation of a judgement & is the first the first the formation of a judgement & is the first the first than that the judgement must be in the first than that. The judgement must be

in the free instructional objectives for a lighthelical learning situation, judge which one with he hist and support the choice by stating at least three reasons for it.

B4 3 04

If teachers have a rational and a workable classificathe religion for this objective, they can lebel each of their objectime with an approxiate level. Since the objectives are level/grade specific and starting point of instruction for teachers should define the appropriate objectives from cognitive domain for better instructional practices.

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PLACHING & EDUCATIONAL OBJECTIVES

Dr. F. Das, Regional College of Edn., Bhubaneswar

invites in accountable steps; namely, defining the goals or objectives, the invential steps; namely, defining the goals or objectives, the invention, deciding on methods of instruction the instruction it self, and measuring or evaluating the results. If the tracking is to now definite purpose & direction definition of goals track in the evaluating comes last. To try to teach and evaluate without defining comes is like starting out a journey without knowled to real it may be pleasant to wander around for a while, but it is applied that any cort of progress can be made without some tirection, therefore, it is argued that education and objectives need to be clearly specified for at least five reasons.

- a) they provide goals towards which the curriculam is aimed;
- 1) they facilitate the selection and organisation of content;
- c) they provide the direction for choosing the appropriate method of teaching;
- they facilitate to evaluate the outcomes of curriculam & instruction;
- e) they provide suitable remedial measures.

Hence, a good teacher formulates his objectives, chooses noticels and materials in accordance with his objectives, employes these noticels and uses measurement to determine how well or to that despect the objectives have been attained. In a sense everything is returning by the objectives.

It may no that some teachers will not consciously formulete any objective at all, but will simply teach by the book". Nevertheless, every teacher works towards some objectives, even dt is only to get through the text book by the end of the session. Whatever the objectives and no matter how they are formulated or thought of, they constitute an essential step or part of teaching.

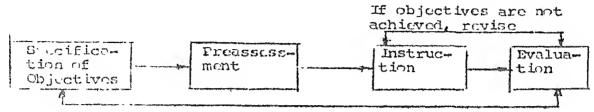
he perioded described a proposed change in a learner - a statement of what the learner in to be like when he has successfully completed a termine exactioner. It is a description of a pattern of beathering (performance) we want the learner to be able to demonstrate. The statement of a better of a programme must denote measurable attributes observable in the programme or otherwise it is impossible to determine whether or not the programme is meeting the objectives.

Therefore, every teacher should have clear goals or objective: thich will give direction & purpose of his work. It is equally important that these objectives be stated clearly & explicitly so that their meaning & implications are clear and well understood.

In recent years, a number of educators have developed models of instruction that consists of four basic elements: (1) Preparation of precise instructional objectives; (2) Preassessment of students to determine their objective relative to the objectives; (3) Instructional activities to ensure achievement of the objectives and (4) evaluate to determine whether students are able to achieve the objectives.

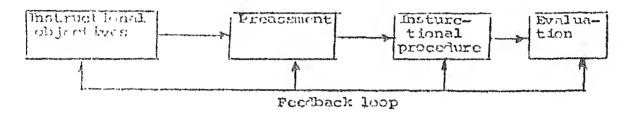
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Three models of instruction are given below based upon the above basic elements.

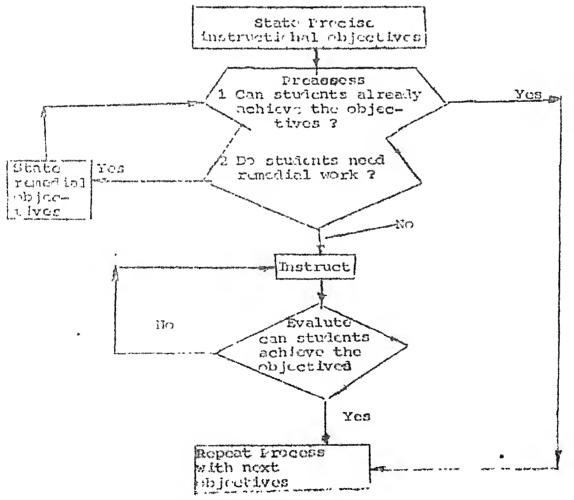


If pals are achieved, augment

Model-1 A goal - reference Instructional Model of Popham & Baker.



Nighel-2 A general model of Instruction. of Kibler, Barker & Miles,

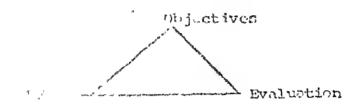


Model-3 L sical I struction Model (LIM)

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to tark it of the a tenemic the country are going about to tark it entries in a variety in a tark it the country are going about in tark it entries in a variety in a factor of the country in a completions of objectives and after the country in a country to all a confidence are asking teachers to write the chiral at a country of the co

The form of the property of the following of questions teachers

- If will be deposite and it in satisfying students needs a
-) to the symbolic attain the objectives ?
- intermed the first resummant attainment?

 The standard less to a series of increasingly more intermed by thes?
- 5) Are the operatives a montible with the over all goals of
- i) are the chiectives relevant a reflective of social and citizent real Ries?
- What the necessary human, rhysical and financial resources
- (s) i mediate for objectives been considered from sources to the manufactor and parents ?

True to the it is evident that stating of precise that method the day it was is a thought provoking and time-consuming tack, but there every other eart of the instructional process depends the other than the chiestive they are all important. If the objectives are gent the took of the instructional process is likely to be poor then, but it the objectives are vell stated, include an observable

tent of the tent

b. b. low, and are measurable, then the instructional process is more quality to be equally strong and sound.

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Thin is and Commissive Evaluation

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Dr. F. Das, Regional College of Edn., Bhubaneswar

the test material evaluation does not adequately here the mail/or mass of the stiffents. From the existing the state of the s race as a least they we can list out these as under :

- king to the property reflection is restricted to examination rather to a remarkensive concept of evaluation.
- ". Ivaled on as considered as end of the course/session tithe, i.e. n as an integral part of teaching-learning TI.M F.
- 4. Twelvetion is considered as an act of measurement of · furlents * learning rather tyan a means for improvement er their bearing.
- is in duration activities are limited to scholastic aspect
- roth r that tool growth of the child.
 The teach teachers is limited to written examina-+ Iriti- triples Ly.
- to tribity of written exeminat ons is questionable from the color of view of validity and realiability.
- 7. Dispossio evaluation is still a dream of the future. " ' ' in | ' valuation as a feedback has yet to become a
- The improving students' learning.
 The distribution is never conceptualised as objective-based,
- but ive, continuous, cooperative and dynamic process.

I was grade many more glaring shortcomings of the exist-The research contention. What is really worth stating is the cause of the content The the time of all the the sharm the main tree, at feet two and psychomoter) for all round deveof the orms is both scholastic and non-scholastic areas. In for a sea of the condent of evaluation can be developed.

" " " " values in the curriculum and is concerned with values in the standard making for improving teaching-learning process.

It is not in the internation is upon broad per omolity changes and major this time of an elementional programme. These include not only scholasthe relative to the part plan men-scholastic areas like attitudes, interestricted to the state of thinking, health, work habits, personal and toold the the litty. Hence evaluation is integrally related to the tumphicy-levening process. In entails a value judgement and works as the state of the second programmes.

for the set I'm Tuat & n - Mainly evaluation helps in :

- The first of the state of the s and them arout lentructional practices.
- of a real may offer the and appraining objectives.

d) creating motivation.

e) to assess total progress of the child.

f) serving as a feedback for both teachers and students for officetive teaching and learning respectively.

g) discriminating and ranking the students.

h) diagnosing pupils weakness/learning difficulties.

i) providing basis for quitance and counselling.

Criteria of Good Evaluation - The criteria of good cva-Intion emerge naturally from the basic assumption about evaluation. Troy can be enumerated as follows:

- n) Evaluation should be objective-based : The evaluator abould define or apellout clearly the set of objectives to be evaluated. The objectiver may be knowledge, understanling, application, skills, attitudes, interests health, work habits, persoanl and social adjustment etc.
- b) Evaluation should be a comprehensive process : Evathat lon should cover both subplastic and non-scholastic dimensions of supply growth and use variety of appropriate tools and techniques of ev. luation.
- c) Evolution should be a continuous process: Since valuation aims at estimating overall growth of the child and basicaof sprouth is a continuous thenomena, it is imperative to make evaluastar requilar and combandous.
- a) Explication chould be a dynamic process : The approach or evaluation should not be rigid, static in nature, It should be flewill one average in respect of frequency of examinations, type of chaminations etc.
- e) Evaluation should be a cooperative process : Since the emphasis of evaluation is on all aspects of pupils progress, a single teacher is not competent to do justice for evaluating all the almonsions of pupils growth and hence the cooperation of all teachers, stutents not rurents is essential.

Flanning and implementation Modalities of Evaluation : oh following stees are suggested about the modalities of school eva-It's it. Later Same

- a) Determining the areas (both from scholastic and non-achelectic) and identifying the appropriate objectives under each area to be confluenced.
- b) selecting/preparing tools and techniques of evaluation. (rools may include achievem at test, diagnostic test, psychological tests, checklist, rating scale, records, and techniques may be in form of written, oral and practical examination).
- c) Determining the periodicaty of evaluation In order lestic and non-scholastic area should be decided much in advance.
- d) Executing the plan Collection of informations or relidences may be done by using the tools and techniques already decided
- e) recording the results I mogress report cards both in scholastic and non-scholastic areas should be developed in order to whole two results.
- f) Using the results for instructional decision The results of the evaluation may be effectively used for improving class-1 . . instructions.

The scheme of com-

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	Non-Poholastic P	ispects	
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_ Observation

- Anecdotal Room

- Bating Scale

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- Drama

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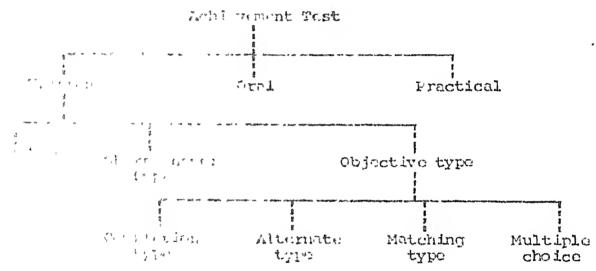
P. J. J. Pryshmatic Trest house &

tions in which the warpening of evident to indicate major directions in which the warpening of evidention deserves to move so as to reading the right of description. Orientation of teachers towards the more lifetions of the improvement of evidentian will not the orientation of the scheme with

- the an tellor-up action plan is suggested :
- ') Or on the firm of Orientation + rogrammes for teachers of our the Act Orientation.
- 1) the in view the school conditions, the scheme of the limit on any be defined and implemented on cooperative begins
 -) The report bound be regular supervision of the school evaluation programme and assistance may be provided to the teachers then they face any operational reduces.
- 1) Portot tra tres cards may be developed and may be supplied to all remods for uniform second of results.
- 5) Action tosearch relating to various aspects of evaluation may be undertaken the findings of which will be taken as find tack for improving evaluation system.

Dr. F. Das, Regional College of Edn., Bhubaneswar.

They are broadly classified to the child a second of the child a second of the child a second of the child of the children which includes tests such that the children of the



The state of the seasons of pupils such as regularity, solution as pecularity, solution, seasons of responsibility; spirit of social solution, seasons of responsibility; spirit of social solution, solution, health-status & various co-curricular solution, anecdotal record, rating the solution of the short are not acquainted with the solution of the short are not acquainted with the solution of the solution and solution modalities of the solution of the solution of the solution of the solution of the solution.

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TTC/REC/92 Shri G.S.Hati Sr.Lect.in Education RCE BBSR

Value Education in Schools

Value - Value refer to objects that human beings cherish and desire and consider desirable, Value of a human being may be simple like chambiness or abstract like pece.

Ecucation & Value

Education is the process of bringing about desirable changes of behaviour in the learner in the way he thinks, feels and acts in accordance with our concept of good life. Hence it is through edn that our san preserve and develop values. It is proper to say that all education in a sense is value education.

Drings of Values

During the last four decades the society has improved a lot the respect to science and technology but there has been a remarkable in line of values in the society. At the individual or group level, intolerance, hatrod, violence, disrespect, falsehood, cruelty and cheating have become the order of the day. The only purpose of living appares to be to achieve immediate gain of wealth, prestige or power by hook or crook.

Course of faiture of Value education

Although all edn commissions in the past has emphasised value of the managed, (espicially the emotional, moral and spiritual to the following possible to the following possible

- C Lancier Faith in volue education (of teachers and absorbant) dominstrations)
- ii) Then of included of techniques of value development, produce of value development and adequate training of conduction.
-) hour of planned programms for implementation of value octented cdn.
- O) nomble role play by members of the society (speeking one thin, and doing something else)

approachs to value education

Value can be provided directly through specific periods in the school time table and assembly. Indirectly values can be included inrough cocurricular activities, school subjects, field also and invourable atmosphere of the school.

Process of Vilue education

- 1. Value education is related to child's psychological readiness and expersence
- 2. The rational understanding of values accelerates the development of values.
- All values can be taught at all levels but the approaches and activities to be provided will be different for different levels.

- d. The value senseation of a person should be related to the sense and cultural context in which he loves and with respect to some universal and eternal standards reducible to all mankind.
 - . Which is influenced by home, school, peer group,
- the second transferation with parents can play an important
- the management is right if does not necessarily mean to be will do what is right.
- J. The way impount involves knowledge of values faith in the value, choosing the right value and putting the fact and practice.
- 19. The cross hould concentrate on some values to start with.

Minusum programmes on value education in schools.

- 1. The tracker may emphasise values whenever an occasion of a whole taching their subjects in regular classes.
- 2. Creative the regularity of development of emotional, that is regular planning for development of emotional, that is regular and apprint and values (e.g. choosing a regular topics for elo action and one act plays)
- *. Attributions should be provided in the school for practice to these in the school.
- 4. the parted a week may be devoted to lectures on Indian culture, lives of greatmen/saints, common features of all major religions and oter topics on emphasing values.
- 5. Muschants may be involved in planned group activities for the outlon, glass, songs, prayers, fieldtrips, each ottom, seed of service, cultural programmes for a value of values of children.
- o. Felt play and small group discussions help children to write term offers of values and resolve value conflicts.
- 7. " put or contact with paraents is a step for sure sucess
- 8. The Moncol wall magazine can be used effectively for Ada day. (e.g. moral stories, prayers etc)
- 9. charl madembly is also another source for value involument.
- 10. The tavourable atmosphere of the school will induce the omild to practise values like punctuality, regularity apparating softly with others, helping others, cleanlines co-operation, sincerity etc.

- 11. Teachers should be thoroughly trained in the area on value education. They may be given chance to visit institutes in the country where value education is practised properly.
- 12. Study circles may be arranged fortnightly/monthly in the school on topics like Karmarjogs, necessity of vilues in life, duty and asscipline, unity of faiths, relffest service, force of prayer sto to sustain foith in value education:
 - 13. Condents should be rewarded for development of different to values annually. This should not be restricted to lot, 2nd or 3rd prize. Anybody who satisfies the teachers on values may be rewarded.
 - 14. Teachers may also be rewarded annually in a school who make lightficant attempt for development of value in students.
 - 15. Every testival is based on some values significance of festivals of different religious may be deromina cated briefly to the students one day before the day of the festival.

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AND MAN AND CODE OF CONDUCT OF TEACHERS (I)

Br. F. Purohit, Regional Collge of Education, Bhubaneswar

A NE L A .

In a courth and success of an educational system of the constant on its teachers, whether they teach in schools, the court teach in schools, the court teachers and hence the importance of the quality of a nation of the citizens and the quality of the citizens and the quality of the citizens and the quality of the citizens are included in depends then it is on the quality of the citizens that it is in the quality of the citizens are it is rightly said by the Education Commission in the citizens are in the citizens that it is shaped in her class

Mark the chutes of the quality of teaching of a teacher?

The children is a large and qualification, professional training, his the children is a large and skills and the place he occupies in the community he lives. The education is a large large process and never ceases on his receiving the lives of a large large process and never ceases on his receiving the large larg

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A few a . The second used as the word profession. No control to a profession of the second profession.

White I (1993) makes a clear-cut distinction between the trainer of his profession and recognises craft as an avoidable of the continuous many activities and modified by the continuous of advisors of advisors practice whereas a profession is an activities are subject to theoretical analysis and are the distinctions of the continuous derived from that analysis.

And of the history of English englessions and commenting on this in their often history of English englessional life Carraunders and Misson (1933) south a "..... there has been no study of the historic leading of the instead associations or of the social, economic, the athical mobbles involved. This is all the more asthonishing leave with as the excater skill and responsibility of professional mender that the control of th

by and no counterpart in the ancient world, to be thre, there existed and alreade (refeasions - law, medicine and theology (county of Got, mailedon) no doubt but the practitioners did not feel the unge to alread to form organisel professions, simply because they were regarded as an econymetrian of gentlemen and they were classified as elergymen (Carr-Saunders and Wilson, 1933). By the end of the eighteenth century, scientific and technological age came in and the Industrial Revolution exerted new areas of specialised intellectual activity and the need for now professions, which then began to proliferate rapidly (Stinnett, 1967). A number of occupations which demanded disciplined and scholard framing, by then, to name a few, engineering, teaching, journation, forestry, nursing etc. were generally conceded in mature societies, as profession.

L. OPENIZ OH DEFINED

Contomorthy teaching is referred to as a profession, which is to properly clarified depends on the criteria employed in delimine a profession. By dictionary definition it is "a calling in which one profession to have acquired some special knowledge used by it, ither or instructing, guiding or advising others or serving them in the art". Many more definitions of the term profession have been been sed by authorities from time to time but they vary in degree of the emphasis on different functions which the profession is surposed to perform but as yet no definition is so widely accepted that it wild be required as authoritative (Rale, 1972).

the temperature in a larger almost reluctantly, "A little reflection to temperature and a profession emerges when a number of the profession in technique founded upon the profession may perhaps be defined as an an interpretation of the profession may perhaps be defined as an interpretation of the profession intellectual ctury and training, the profession intellectual ctury and training, the finite permits in a supply shilled service or advice to others for finite permits a supply shilled service or advice to others for finite permits a supply a stilled across or finite permits and for a deligible permits of general belief that only a paid work or clear, a little across of general belief that only a paid work

Many och v social scientists (Licherman, 1956; Huges, 1965; Barber, 1975) have also defined the term profession but none of all provide a comprehensive and correct idea of unat really entitled a profession. But it is inevitable to draw a deviding line of the approfession of and non-prefessional occupations however difficulties in a distinct for how in professional and non-professional accupations that the inferior medical and non-professional accupations are easily. It is not morely that any dividing line might be arbitable at the drawing of a line, which though arbitrary is equal, possents great difficulties if it is not impossible. Eccention for the features are described and considered professions exhibite a symplem of characteristics. The acknowledged professions exhibite a legar of the features. These stard at the centre, and all around them are ground to exhibiting come but not all those features.

TRANSCOOK - THE CHAPACTERIETICS

However, some writers have listed some characteristics of distinguishing features in their study. The characteristics of the term profession as suggested by the Marional Foundation (consisting of the M.S.A. (1948) are as follows:

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the professional ethics different to the professional ethics different conditions, norms and quality the professional obligation a and the first of the at conduct gives for its members many dos 1, 1 17 TEIN

The the making prefere ion has slowly evolved a code of were and professional Chics. The teaching profession is lagging for banial other profession in this respect.

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1, The allowed development of the human personal My

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- opposite the process of every child to get equal elecational opposite it is based on social justice without discrimination of each area, or is religion, ess, social origin, and it is a point of the end of the
 - from the contract heritage and to describe the milty and intemptity of the contract to the contract the filter and the contract the con
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- le lu , e ca allere el ille en le comme en requirire en ent knowle lu , e ca allere el ille en la cena en inluvitual and le en lim el larret the surlents.
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The Weight 1 to a distribution of professional gale of ethics, the Weight 1 to a distribution of completely meglected. No Yea- a mail or of the completely meglected. No Yea- a mail or of the completely meglected and a mail or of the completely meglected.

Wills the control of a descend of these is almost nonwithout, the wise againstical ethics, however, finis a place in her constant in the engine of the organisations, but so far as not constant to the engine of the organisations are of the frontier Organisations are unter obligation to comply with the directive of the organisational ethics and there are also penal provisions they of the locality. But in actual rectice, as the date of the control of the contains are particles, as the date

The state of the state of the state of the subjected and been for their failure in adopting and enforcin the state of the teachers include in unprofethe reservoires and evading professional duties. The the resto the failure to the

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The Infension of Teaching 1965

"To Bedial Work a Profession ?" 1 1 1 2 2 4 2 5 4 17 34 Proceedings of the National Conference of Charities and Corrections (The Hillmann

Erinting Company, 1915)

the contract of the Indessional Iroblems of Teachers, 4th It inting, The Macmillan Compnay, New York,

1 4 1 2 1 1 1 1 1 1 1 1 1 "Role of Teachers' Organisations in Assistance to Developing Countries", Discation Lanorama, Vol. XI, No. 3, 1969

ir dession of Teaching in Inita it. Publications Ltd., Bombay 1972 1 8 2 2 3 1 1 1 1 1 1

Alunti a as a Profession Lught Marel Cliffs, N.J., Prentice Hall Inc., 1956

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The Inflasion of Teaching 1962 file (St. Tr. Askin ipt., i rentice Hall of In Ha Pvt. Ltd.,

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The process of these, Combride University Table 1, To the op Fires 1933.

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TTC/REC/92

Professional Ethics and Code of Conduct of Teachers (II)

Dr. Friyaprana Purchit, Regional College of Elucation, Bhubaneswar

The Dational Policy of Education (MPE) 1986 in Part IX 5 outen 9.3 under the heading 'The Teacher' states: "Teachers Association must play a significant role in upholding professional intermits, enhancing the dignity of teachers and in ourbing professional declaration of teachers could prepare a few of Irofess could be thick for Teachers and see to its observance".

This clearly indicates that there is a felt need for a already defined I refessional Code of Ethics for teachers. Some Teachers' Accordations were of the view that they have already formulated to be of ethics for their teachers. But when asked if they are implemented properly or not they reductantly replied 'yes' which indirectly not 'so'.

Kacping the recommendation as given in NPE 86 in view, a country wide leliberations were held and draft code of othics for achiers was a related which was modified in the Conference of National Level Tractors! Organizations (represented by All India Federation of Fine a implications (ATFFA) and many national and state level to be a particulations) held at National Council of Educational Proceedings (NCERT), New Delhi on 18th and 19th January, 1988.

The code of thics as accepted by the teachers' organiof on, has in it, a precipile and is divided in five parts. Part I adole in Teacher in relation to students, Part-II - Teacher in relation to parents/Guardians and Part III, IV and V deal with 'teacher in relation to society and the Nation', 'Teacher in relation to Profession' illeagues and other Professional Organisations' and 'Teacher and by gotion of Management and Administration' respectively.

In the prepable the teachers fibre given firm faith on or firmal lemlequent of students and education, and to promote a benefit accidint to and secular society. Now let us liseuss the order of thics, part wise.

tark a Teacher in Relation to Students

The Tracher shall,

- 1. treat all students irrespective of easte, creed, sex, taker, religion, language, place of birth, with love and affection and be just a importial to all;
- 2. hely students for the development of physical, inteliedual, social, emotional and their intrinsic values and character;
- 3. promote in students scientific temper and spirit of requiry, creative self expression and aesthetic sense leadership quatity and proper attitude towards environment and encourage them to ask a year ions to satisfy their curiosity;
- 4. Acyclop in students love for manual work and respect
 - there are trying in diversity;

the first of the property in the difference, socio-cultural

Two represents an approved scheme for remidial teaching to the remidial teaching or tutoring his students;

If he had not see with respect with students and shall in the continuous student except to those who is really as the first to it;

To invit at the leve for mother-land and universal

The state of the state of dress, speech and behaviour worthy

the first of the second of respect and admiration for their and their own;

The distribution among the students;

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Pietr The Prizer in Petartian to Larents/Guardians

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. The wide information to parents regarding the attain-

of the transfer of the anything which will tend to unler-

The result of the law law, percents in shooth improvement programme;

the off Position for the first to decisty and Mation Recognizing that, to whom we have the topical of modern militaring the not only applications of the people.

The heart shall,

1, 21, we to develop the clucational institution as a country to be an recourse development centre providing knowledge to internation may be determined by

2. strive to fight fissiparous and separatist tendencies reselvenents, sellgion, region, language and extra-territorial loyal sellers

3. try to utilize fully the resources available in the convenity to improve teaching-learning process;

The first of the first interfering with the Ireal Eactional

- 5. Strengthen national integration and premote the ideals d. orderacy, secularism and socialism in the community;
- 6. strive to enlighten the community with the help of appropriate agencies on welfare programmes, citizenship rights, legistive on administrative measures, intended for the benefit of the reals;
- 7. endeavour to seek public co-operation in cent percent are diment and retention of children of sbhool-going age till their couplete their education;
- 8. Stilve to provide security and protection for women, one encourage them to work in rural areas with dignity and homour and enclock them from uncocial elements;
- 4. Lake farticular interest for promoting education of parlimant measurements of society and create awareness of equality of women;
- 10. protect and defend himself from any injustice, humi--lock on and exploitation by any individual or institution in the
 condity.
- Fort IV TEACHER in relation to Profession, Colleague and other Professional Organisations
- Teacher in relation to colleagues and profession

The teacher shall,

- 1. demire and maintain high academic and professional
- 2, so k and participate in programmes of continual proterminal quartic in life inservice education-seminars, symposia, work-
- 3. Recombresst with latest developments and techniques in the subject matter and polarpsy;
- A, beak, as a matter of right, to conduct experiments and increations in teachin; learning practices;
- 5. avoid making derogatory statements about colleagues carecially in the presence of pupils, other teachers, officials or ther terrons;
- 6. co-merate with the head of the institution and collein the institution and outside in both curricular and co-curricultivities by providing professional assistance;
- 7. plan operational schedule of coverage of syllabus (. white, written assignments and tests) and complete the work in time of page for regision;
 - a, he willing to assist new entrants to the profession;
- 9. help in the corp.rate responsibility of protecting the image of the circational institution and the system as a whole;
- 10. accept as a professional the individual responsibility of reporting to the concerned in an appropriate manner all matters the techarmful to the interests of the students and the development of the institution;
- 11. organise social and cultural activities in the school with community participation;

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the restriction of teachers and share deci-

The the state of the learning in consultation with the

A Committee of the approximation and evaluation practices in

with providing transfers and terminations;

in the first of the installately about the nature of the first of the first of the professional or personal conduct;

Tell a bin and quile to colleagues in the discharge

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the first of the first unsernations management and has been been to be a profession of the first of the unrealistic and unworkable without correspondent of the first of the management and administrative of the first of the managements and administration. The team

1. th consequent and educational administrators shall prote tair, by attal and honest in matters like recruitment, pro-

The state of recruitment, promotion and trans-

The state of the property of all colons and promotions

- 4. The named ment and administration shall provide the noted in the infinite tructure physical facilities, equipment, laboratories, libraries and adequate staff on the basis of subject requirements and other conditions conditions for providing an atmosphere of freedom and impovations;
- 5. the teacher-pupil ratio be kept at 1 : 30 for effective teaching and individual attention:
- 6. the teachers shall be provided with adequate salary, aniform may structure, a decent standard of living, social security, an expent tentile, housing and uniform service and working conditions required to discharge duties without want and fear or favour;
- 7. a syntem be evolved for teacher evaluation, Data-'a.c) remarding merits and discouraging sub-standard performance;
- 8. in molys teachers in planning and decision-making in only someoning education, teacher requitment, teacher education, spine constition and grievance removal. For this, a suitable statutory machinery shall be evolved at the national and state level;
- 9. full opportunities be given to teachers to improve rhadr academic and professional standards by providing libraries, rading-rooms, continuous inservice education programme, study leave, travel facilities, facilities for attending conferences, seminars etc., both in and outside the country;
- 10. atlatitute be provided for long absence of regual teachers.

Teacher in Helation to Management and Educational Administration

Actuming that the forc-going conditions are fulfilled, to be beacher shell,

- 1. he aware of legislative enactments, and rules and relations powerning educational policies and employment and abide by thus;
 - 2. co-operate with the head of the institution, the management and the educational administration in running the institution according to the stipulated norms;
 - 3. show due respect to constituted authority;
 - 4. be punctual and regular in attending the institution on enrying out duties and assignments and shall not abstain from the willout proper information;
 - The refrain from attempting to influence individual member of the nonegement and officers for furthering persoant career prospect. In calculate processional favours;
 - 6. protest assigning of duties for which he feels un-
 - 7. resist pressures from management and administrators in the metter of almissions and promotion of students;
 - 8. refuse to impart any instruction which is determental to the interests of the students, society, or the nation;
 - 9. refuse to occept any duty inconnected with the profession;
 - 10. seck the assistance of auxiliary staff in doing clerical and other mon-academic work;
 - 11, not chirk responsibility and accountability to the community as a whole.

- is color requirations, after mutual consultations, may be by a finite their respective organisations, a suitable to the respective observance of this code are or dealing with cases of professional misconduct.
- To the the condeavour of teachers and teacher organirations to be that all conduct rules governing teachers not a relatance in various forms, in different states to the controller replaced by the faithfull observance of the confessional ethics.
 - * id who of Professional Ethics after it is finally that I by the other Organisations, shall be translated the different languages.

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The transfer to the transfer to the state of

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Fric Ashby(1967) has identified four revolutions in amntion and they are :-

1) First, the task of educating the children was shifted in part, from parents to teachers and from home to the school;

2) Second, the adoption of written words as a tool of elucation prior to which oral instruction prevail when it was with reductance that writing was permitted to co-exist with the spoken port in the class room;

i) the third revolution came with the invention of printing out the subsequent wide availability of books;

4) the fourth revolution came with the development in electronice notably three of the radio, television, audio recepter, velio recorder and the computers.

The teacher to teach less and the learner to learn more. The volopment and use of modern Educational Technology is viewed differently by different people. Some view, that it is a revolution in the ducational system aimed at improving the effectiveness and efficiency of advantion at different levels. Some castigate it as a movement aimed at inferent levels. Some castigate it as a movement aimed at inferent levels. Some also argued that educational technomial is an inference of teachers and the students would be reduced to the first poly of teachers and the students would be reduced to the objects. Blueational Technology to date has been given the object of the educators and laymen to use it in a teacher to make it in a teacher to use of education, training and extension

The transference of your places, the application of science to seen to the proof the science of learning and communication to teaching a control of the local pay. Educational Technology with the traditional meching aids notice effective teaching with the help of modern tools, the lumica, paper, ink, books, radio films, television and more sophistically applied hardware like computers, space satellite. Thus educational technology is not to replace the teacher, but to aid him, in effective tacking-learning process.

that is Educational Technology (ET): ET is the application of a simulations to teaching and learning. It is not the application to be belief to ensection rather applying the technology of modell-test a model is a concentional system. For effective teaching learning many concentrational system. For effective teaching learning many concentrational system. For effective teaching learning many concentrational system. For effective teaching learning many concentrations and facilities are available and most popular are solved like to a fillion. What is important is to integrate students to there, he does not appropriate software so that they will contribe market and complement each others. Thus ET means the sum total of a backlonal facilities, making helping and techniques for optimizing the property of the strong for a still examine.

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mil . dired. Another means of the he and the straight of advancement of knowledge,

the concept of ET in India is of in vogue for the last eight to ten in vogue for the last eight to ten one; ii) is means the use of mass media & it is made in education; and (ii)

1. J. Forces in a system in order to optimit to have a considered in the interior of education. In the interior, viz., teaching machines, film proposed in the laboratory, tape recorders, computers them EF is quite comprehensive. It takes is recorded (not ware) and their uses to their uses to

in the rier to understand the definition the terms 'education' and 'technical the terms 'education' and 'technical the terms of the commonly defined the devilopment of the power of the range of the environment.

If the off technique and methods of doing/getting the country art, require or to a particular profession.

. .) .

the teaching-

of the transfer of inter-way of designing, carrying out and evaof a life by crives, utilizing all available resources, and a teh man to learning about offective instruction. notational facilities - Media,

the translagy in education nor technology of eduin the middle pervasive which pervades the whole in the line process to make it meaningful for the teation of the case of the case of the learner who learns and modifies him in the learner and the betterment of man-1 . .

of for diffical Technology (ET): If ET is used as the in the first and electrical gadgets the scope is limiin the limit and electrical gadgets the scope is limiin the limit and electrical gadgets the scope is limiin the limit and if ET is used as a process-oriented
in the limit and the production of teachingin the limit is busically the technique of developing software
in the limit and the encept of management and organisation of man
in the limit are for specific objectives. Thus ET covers both
in the case will be explanation of both hardware and software. For The transfer of the clucational problems are to be identified and the thicking should be done on the following points: (1) Availability The first of the lame; (2) Resources that can be managed by external the problem; (4) The constraint of solders in ion; (5) Hot. different resources inter

Major Approaches of E.T.: Experience and research has shown if the Following fagures are generally valid.

1.0 percent through TASTE
1.5 percent through TOUCH
3.5 percent through SMELL
11.0 percent through HEARING
83.0 percent through SIGHT

We remember: 20 percent of what we HEAR

30 percent of what we SEE

50 percent of what we SEE AND HEAR

80 percent of what we SAY

90 percent of what we SAY AND DO

There is an old saying which reads "I hear, I forget; I

There are three major approaches in the field of Er. They :- (1) Hirdware approach; (2) Software approach; (3) Instructional design approach;

A. Hardware Approach - Its origin is in the amplication of schence and engineering in education. Technology of machine is closely related to the machine. Teaching machine is the only machine designed primarily for teaching and deliberately invented to fulfil an instructional requirement. But all other A.V. aids were designed and manufactured for improving communication system and not for educational one but new to are using them (Radio, Television, Tape Recorder, Pecord Llayer et.c). These machines were developed for market rather than for education. Thus the process of teaching-learning has been gradually mechanical. The teacher can teach a larger group effectively with the little of these machines and the per capita cost of clueation has been reduced.

B. Enfitware Approach - It refers to the application of teaching learning principles to the direct and deliberate shaping of behaviour. ET is closely associated with the principle and theory of teaching. It is also known as constructive ET in which some constructive work is to be performed. It deals with (1) analysis of educational problems; (2) selection or construction of measuring instruments to evaluate instructional outcomes; (3) construction and selection of strategies to produce desired educationa outcome.

In Hardware approach ET is concerned with teaching aids like teaching machines and in coftware approach ET is concerned with learning aids like recognammed instruction.

C. Instructional Desing Approach: It is concerned with educational administration and organisation. It has brought to educational meanagements to scientific-quantitative approach for solving educational administrative problems.

Objective of Educational Technology (E.T.): Technology is the opium of intellectuals. It is to guard against this possible technology is talked of. The objectives of E.T. are a

- ". "he mealy on the characteristic of the learner;
- T. Partining the content in logical or psychological tensions;
- 1. The most its between content and resources of presneta-
- f. or evilent the learners performances in terms of achieving educational objectives;
- is the write the freed back among other components for the marification of learners.

Thus E.T. is an innovation which has to cover a long distance in India.